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 2-Amino-5-chlorobenzoic Acid [ACBA) 	635-21-2
Decanenitrile (DCN)	1975-78-6
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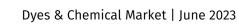
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Published by Parimal B. Parikh 401/C Himachal Bldg, Opp. Sunder Nagar, S.V.Road, Malad (West), Mumbai 400064. Mobile: 91-87798-30330

DCM Media Office Address: DCM Media Private Limited 513, Lotus Busness Park, Ram Baug, Chincholi, Off S. V. Road, Malad West, Mumbai - 400064 Phone: 98196-44048 / 91-877-9830330



EDITORIAL

CHEMICAL MARKET

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

Semiconductors Brains of Modern Electronics, the Next Growth Phase, will the **Chemical Industry Benefit?**

The world is run on semiconductors. The chips are made from silicon wafers. The silicon wafers are made from silica/sand. Silica is another name for the chemical compound composed of silicon and oxygen with the chemical formula SiO2, or silicon dioxide. There are many forms of silica. All silica forms are identical in chemical composition, but have different atom arrangements. It can be found naturally in abundant amount as sand and is a raw material for many useful chemicals like silicone and silicates. Silica is divided into two main groups, crystalline silica and amorphous silica (non-crystalline silica). The most common type of crystalline silica is quartz. Other types also exist, but they are less common. Silica compounds are found throughout the environment in rocks, sand, clay, soil, air, and water.

Silicon is produced throughout the world, but the following countries supply the majority of it: China, Russia, Brazil, Norway, United States, France, Malaysia. China is the biggest producer, responsible for mining 5,400,000 tons of the substance each year. India is endowed with sufficiently large reserves of silica minerals. It is estimated that the total reserves of silica minerals are in the order of 1,350 million tonnes. The states where Silica sand is majorly produced include Gujarat, Rajasthan, Andhra Pradesh, West Bengal, Tamil Nadu.

Silica is melted in a furnace at around 1,700 °C and is reacted with carbon to produce impure silicon. The high-quality silicon in chips is made by melting chemically purified silicon and letting it recrystallize slowly. One of the most important things that silicon-producing countries need is water. The process of making it ready for use involves a vast amount of water, which means that droughts can have a negative impact on silicon production.

There are many different substances that can be used to produce wafers. These substances include: Gallium, Arsenide, Germanium, Indium Phosphide, Sapphire, Quartz.

Silicon, is not just used for electronics, but is also used in the production of steel, cement, glass and more. The most commonly used bulk gases in semiconductor manufacturing are nitrogen, helium, hydrogen and argon. Chemicals such as trichloroethylene, acetone, isopropanol, and other alcohols such as denatured ethanol are also used. The other important chemicals used are Cyclohexanone CAS NO. 108-94-1, Propylene glycol Monomethyl ether CAS NO. 107-98-2, Vitreous CAS NO. 676-86-0, Carbon black CAS NO. 1333-86-4, Gamma-butyrolactone CAS NO. 96-48-0, Sulfuric acid CAS NO. 7664-93-9

On another note, there is an event coming up on June 30, 2023. The Chemical Conclave Revolution towards Sustainable India to be held at Nariman Point, Mumbai. Please go to our events section for more information.

-Rajiv Parikh









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5	Methyl Chloroformate	79-22-1
6	Methylamine Hydrochloride	593-51-1
7	Monomethylamine In Methanol	74-89-5
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Calcium Chloride Lump 70%	50 Kgs	14.00	Sodium Sulphite 92%
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risodium Phosphate Cinc Chloride Powder (Tech.) Cinc Oxide White Seal Cinc Stearate [Pure] Cinc Sulphate (Tech.) Organic Chemicals Accetic Acid Glacial Accetone Benzene Benzyl Alcohol Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Camphor	50 Kgs 50 Kgs 50 Kgs 25 Kgs 50 Kgs 50 Kgs 35 Kgs 160 Kgs 160 Kgs 25 Kgs 170 Kgs 165 Kgs 195 Kgs	90.00 235.00 195.00 58.00 Price (Rs/Kg) 63.00 100.00 92.00 200.00 180.00 180.00 115.00 115.00 130.00 850.00
risodium Phosphate Cinc Chloride Powder (Tech.) Cinc Oxide White Seal Cinc Stearate [Pure] Cinc Sulphate (Tech.) Organic Chemicals Acetic Acid Glacial Acetone Benzene	50 Kgs 50 Kgs 50 Kgs 25 Kgs 50 Kgs 50 Kgs 50 Kgs 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs 165 Kgs 195 Kgs	90.00 235.00 195.00 58.00 Price (Rs/Kg) 63.00 100.00 92.00 200.00 180.00 105.00 115.00 130.00 850.00 152.00
risodium Phosphate Cinc Chloride Powder (Tech.) Cinc Oxide White Seal Cinc Stearate [Pure] Cinc Sulphate (Tech.) Organic Chemicals Acetic Acid Glacial Acetone Benzene Benzene Benzyl Alcohol Bisphenol-A (Russian) Bisphenol-A (Russian) Butyl Acetate Butyl Cellosolve Camphor Cellosolve –Ethyl Chloroform	50 Kgs 50 Kgs 50 Kgs 25 Kgs 50 Kgs 50 Kgs 35 Kgs 160 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs 165 Kgs 195 Kgs 25 Kgs 300 Kgs	90.00 235.00 195.00 58.00 Price (Rs/Kg) 63.00 100.00 92.00 200.00 180.00 180.00 115.00 115.00 130.00 850.00 152.00
risodium Phosphate Cinc Chloride Powder (Tech.) Cinc Oxide White Seal Cinc Stearate [Pure] Cinc Sulphate (Tech.) Organic Chemicals Acetic Acid Glacial Acetone Benzene Benzyl Alcohol Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Callosolve Camphor Cellosolve –Ethyl Chloroform Citric Acid (Anhy)	50 Kgs 50 Kgs 50 Kgs 25 Kgs 50 Kgs 50 Kgs 50 Kgs 160 Kgs 160 Kgs 25 Kgs 25 Kgs 170 Kgs 165 Kgs 195 Kgs 25 Kgs 300 Kgs	90.00 235.00 195.00 58.00 Price (Rs/Kg) 63.00 100.00 92.00 200.00 180.00 180.00 105.00 115.00 130.00 850.00 152.00 44.00 95.00
risodium Phosphate (inc Chloride Powder (Tech.) (inc Oxide White Seal (inc Stearate [Pure] (inc Sulphate (Tech.) Organic Chemicals Acetic Acid Glacial Acetone Benzene Benzene Benzene Benzyl Alcohol Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Butyl Acetate Butyl Cellosolve Camphor Cellosolve –Ethyl Chloroform Citric Acid (Anhy) Citric Acid (Mono)	50 Kgs 50 Kgs 50 Kgs 25 Kgs 50 Kgs 50 Kgs 50 Kgs 35 Kgs 160 Kgs 160 Kgs 25 Kgs 25 Kgs 170 Kgs 165 Kgs 195 Kgs 25 Kgs 300 Kgs 25 Kgs	90.00 235.00 195.00 58.00 Price (Rs/Kg) 63.00 100.00 92.00 200.00 180.00 180.00 115.00 115.00 130.00 850.00 152.00 44.00 95.00
risodium Phosphate Cinc Chloride Powder (Tech.) Cinc Oxide White Seal Cinc Stearate [Pure] Cinc Sulphate (Tech.) Organic Chemicals Accetic Acid Glacial Accetone Benzene Benzyl Alcohol Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Callosolve Camphor Cellosolve –Ethyl Chloroform Citric Acid (Anhy) Citric Acid (Mono) Cresote Oil	50 Kgs 50 Kgs 50 Kgs 25 Kgs 50 Kgs 50 Kgs 50 Kgs 160 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 195 Kgs 195 Kgs 25 Kgs 300 Kgs 300 Kgs 25 Kgs	90.00 235.00 195.00 58.00 Price (Rs/Kg) 63.00 100.00 92.00 200.00 180.00 180.00 115.00 115.00 130.00 850.00 152.00 44.00 95.00 75.00 64.00
risodium Phosphate Cinc Chloride Powder (Tech.) Cinc Oxide White Seal Cinc Stearate [Pure] Cinc Sulphate (Tech.) Organic Chemicals Acetic Acid Glacial Acetone Benzene Benzyl Alcohol Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Callosolve Camphor Cellosolve –Ethyl Chloroform Citric Acid (Anhy) Citric Acid (Mono) Cresote Oil Cyclohexanone	50 Kgs 50 Kgs 50 Kgs 25 Kgs 50 Kgs 50 Kgs 35 Kgs 160 Kgs 160 Kgs 25 Kgs 25 Kgs 170 Kgs 195 Kgs 25 Kgs 300 Kgs 25 Kgs 300 Kgs 300 Kgs	90.00 235.00 195.00 58.00 Price (Rs/Kg) 63.00 100.00 92.00 200.00 180.00 180.00 105.00 115.00 130.00 850.00 152.00 44.00 95.00 75.00 64.00 142.00
risodium Phosphate Cinc Chloride Powder (Tech.) Cinc Oxide White Seal Cinc Stearate [Pure] Cinc Sulphate (Tech.) Organic Chemicals Acetic Acid Glacial Acetone Benzene Benzene Benzyl Alcohol Bisphenol-A (Russian) Bisphenol-A (Russian) Butyl Acetate Butyl Cellosolve Camphor Cellosolve –Ethyl Chloroform Citric Acid (Anhy) Citric Acid (Mono) Cresote Oil Cyclohexanone D Turpentine	50 Kgs 50 Kgs 50 Kgs 25 Kgs 50 Kgs 50 Kgs 50 Kgs 160 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs 165 Kgs 195 Kgs 195 Kgs 300 Kgs 25 Kgs 25 Kgs 300 Kgs 25 Kgs 300 Kgs	90.00 235.00 195.00 58.00 Price (Rs/Kg) 63.00 100.00 92.00 200.00 180.00 180.00 115.00 115.00 115.00 130.00 850.00 152.00 44.00 95.00 75.00 64.00 142.00
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risodium Phosphate Cinc Chloride Powder (Tech.) Cinc Oxide White Seal Cinc Stearate [Pure] Cinc Sulphate (Tech.) Organic Chemicals Acetic Acid Glacial Acetone Benzene Benzyl Alcohol Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Bisphenol-A (Russian) Callosolve Camphor Cellosolve –Ethyl Chloroform Citric Acid (Anhy) Citric Acid (Mono) Cresote Oil Cyclohexanone D Turpentine Diacetone Alcohol Diethylene Glycol	50 Kgs 50 Kgs 50 Kgs 25 Kgs 50 Kgs 50 Kgs 50 Kgs 160 Kgs 160 Kgs 25 Kgs 25 Kgs 25 Kgs 170 Kgs 170 Kgs 170 Kgs 170 Kgs 25 Kgs 25 Kgs 25 Kgs 25 Kgs 300 Kgs 25 Kgs 300 Kgs 25 Kgs 25 Kgs 300 Kgs 300 Kgs 25 Kgs 200 Ltrs.	90.00 235.00 195.00 58.00 Price (Rs/Kg) 63.00 100.00 92.00 200.00 180.00 105.00 105.00 115.00 130.00 850.00 152.00 44.00 95.00 75.00 64.00 142.00 142.00 135.00





EDTA Acid	25 Kgs	288.00	Paraffin Wax (White)	50 Kgs	130.00
EDTA Disodium	25 Kgs	268.00	Para formaldehyde 91%	25 Kgs	115.00
EDTA Tetrasodium	25 Kgs	268.00	Perchloroethylene	320 Kgs	155.00
Ethyl Acetate	185 kgs	102.00	Phenyl Liquid	230 Kgs	110.00
Ethylene Dichloride	200 Kgs	65.00	Phthalic anhydride	25 Kgs	115.00
Ethylene Glycol-mono	230 Kgs	67.00	Pine Oil 22%	200 Litrs	110.00
Formaldehyde	65 Kgs	30.00	Pine Oil 40%	200 Litrs	190.00
Formic Acid	35 Kgs	72.00	Polyethelene Glycol 400	230 Kgs	118.00
Formic Acid	250 Kgs	65.00	Polyethelene Glycol 600	230 Kgs	140.00
Hexamine – Tech	50 Kgs	125.00	Propylene Glycol	215 Kgs	128.00
n-Hexane	160 Litrs	68.00	Poly Aluminium Chloride	25 Kgs	34.00
Hydroquinone (Imported)	25 Kgs	1,150.00	Red Lead	50 Kgs	220.00
Isopropyl Alcohol	160 Kgs	124.00	Renine	180 Kgs	72.00
Isopropyl Alcohol (Refill)	160 Kgs	104.00	Rosin	17 Kgs	125.00
Maleic Anhydride	25 Kgs	125.00	Sodium Acetate	50 Kgs	34.00
Methyl Ethyl Ketone	166 Kgs	132.00	Sodium Benzoate	50 Kgs	100.00
Methyl Isobutyl Ketone	160 Kgs	235.00	Sorbitol	250 Kgs	52.00
Methyl Isobutyl Ketone (Refill)	160 Kgs	230.00	Stearic Acid (cosmetic)	50 Kgs	130.00
Methylene Dichloride	250 Kgs	52.00	Styrene Monomer	185 Kgs	115.00
Methylene Dichloride (Refill)	250 Kgs	42.00	Terpeneol Perfumery	25 Litrs	260.00
Mineral Turpentine Oil	50 Kgs	120.00	Thiourea	25 Kgs	320.00
Monochloro Phenol	50 Kgs	120.00	Toluene	200 Ltrs	98.00
Nitrobenzene	200 Kgs	120.00	Trichloroethylene	280 Kgs	145.00
Octanol (2-ethylhexanol)	160 Kgs	130.00	Triethanolamine	210 Kgs	125.00
Oleic Acid	50 Kgs	140.00	Vinyl Acetate Monomer	185 Kgs	120.00
Oxalic Acid (Punjab)	50 Kgs	74.00	Xylene Mixed	185 Kgs	103.00
			O-Xylene	185 Kgs	120.00

Above prices are given in good faith by : MR. SUBHASH GHORAWAT M/S. CHEMICAL (INDIA) COMPANY

'Eden Plaza', 3rd Floor, 87-Perumber Barrack Road, (Near Doveton Signal), Purusaiwakkam, Chennai - 600007 (India). Phone : 91 44 2642 0596 / 2661 5421 / 2661 0513 / 2661 1912 Email : cic@vsnl.com / chennai513@bsnl.in / 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.

> > CHEMICAL MARI



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If you list your company and products, you will definitely get a new customer

(IMPORT / EXPORT COMPATIBLE):

Connect to Local and International Audience,

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MUMBAI PRICE TR	END - 15.06.2023	CL
Organic & Inorganic Chemicals	Price (Rs/Kg)	SBC TECH
ACRYLIC ACID	99+	MEALIC ANHYDR
DCDA	190+	EAM
NBA	93+	ALPHOX 500
BUTYL ACETATE	107+	MEK
CAUSTIC POTASH	113+	MDI
ACETONE	87+	SOLVANT C9
MDI	170+	ETHYL ACETATE
BAM	125+	FORMAL
MIX XYLENE	95+	TOLUENE
DAA	119+	GLYCERINE
IPA	95+	РМА
MEK	117+	SMBS
OCTANOL	126+	P.G TECH
ODCV	88+	OXYLENE
MIBK	180+	MEG
CYCLO (Taiwan)	146.00	DEG
POTASSIUM CARBONATE	131+	METHANOL
		ETHYAL CELLOSOLVE

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

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



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Buy Enquiries

			<u>nttps://www.cne</u>	mcut	marketii	iet/seuren
Product Name	Qty	Grade	Product Name	Qt	ty	Grade
Methane Sulphonic Anhy-	30 Kgs 🚫	Industrial	Ethyl 3-(2-(((4-cyar			
dride CAS NO:- 7143-01-3			phenyl)amino)met			$\mathbf{\Sigma}$
Details : Please quote the best p	rice.		yl)-1- methyl-N-(py din-2-yl)-1H-benzo[Kas	None
Product Name	Qty	Grade	imidazole-6-carboxamid		Kg3	None
5-Fluorocytosine CAS# :-	500 Kgs	Industrial	propanoate CAS#:- 21191			
2022-85-7			84-3			
Delivery: CIP MUMBAI AIR D best quote along with delivery p		s send 🕥	Details : Need this Dabigatra pose.	n interi	mediate for	r trial pur-
Product Name	Qty	Grade	Product Name	C	Qty	Grade
Manganese Dioxide (90%) CAS# :- 1313-13-9	12 Tonnes	Technical	Bromoacetaldehyde Dime	thyl 5		Industrial
Payment terms : 1 Month Desc	intion:- Please	e send	Acetal CAS NO:- 7252-83- Details : We have the following	-/		ndlu
best quote along with COA/MS	1	(A)	send your best offer for the sa			
required for testing purpose.		. ~	and specifications.		the four	
Product Name	Qty	Grade	Product Name	Qt	tv	Grade
1-Iodo-2,2-dimethylpropane			Allyl Chloride 99% //		1	Virgin-
CAS# :- 15501-33-4	500 Tonnes	Industrial	107-05-1 // A43930		Can	Pure
Details : 1. Quote us your best C		hai, China)	Details : We need the materia	al		
price. 2. Advise us the shortest l			Product Name	Q	tv	Grade
3. Attach your recent batch CO	A for quality ap	oproval.	Aminomethane			
Product Name	Qty	Grade	CAS#:- 77-86-1	4]	Tones	None
Detergent Solvent "Solves-			Details : Pharma application			
so 100 (C4 163-180 GOST	2000 Ltrs	None ᠑	Product Name		t	Grade
10214-78)	00 I () T	TALL OIL		Tones	Industrial
Solvent 646 GOST 18188-72		None	Details : Please inform best p			
Leads : 1. Technical documentat datasheets and etc./ if applicable		U	& lab analysis report & it's C		iso picase s	
certificates (COC, MTC, Calibr						
approximate packing information	n and HS code	es. 4. De-	Product Name	1	ty	Grade
livery term we prefer FCA or DA			Methacryloyl Chloride CA	AS# 50	00 Kgs	Industrial
Pick-up Address. 5. Price offer s			Details : Please share your b	est offer	r on basis I	FOR
Other Techinical Details:- Color ish Density at 200C - 0.860 gr./n	-	•	Ahmedabad along with the			
xylene) - 8 – 15 Sulfur content -			packing detail and payment			
ture (open crucible) - 270C		1				
Product Name	Qty	Grade	Product Name	Q	ty	Grade
PeCeVis 100 PS // 39069090			Allyl Chloride 99% // 107-05-1 // A43930	10	Can	Virgin-
// MBCC Group	1 Tonnes	Any 🕓	Details : Leonid Chemicals I	Dyt I td		Pure
Leads : Broadways Chemtech			Locuito, Deonia Chemicalo	VI LIU		
Due du et Name	Otre	Crede	Product Name	Qty	Grade	
Product Name Potassium Chloride	Qty	Grade	Suppinio Apid 000/ food			
CAS#:- 7447-40-7	100 Tonnes	Industrial	grade chemical	80 Kgs	s Industr	
Details : By product low grade.						

Dyes & Chemical Market | June 2023



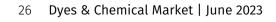


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Product Name C	ty (Grade	MDC (Cas no:- 75-09-2)	200 Kgs	Industria
Sodium Thiosulphate			Stearic Acid (Cas no:- 822-16-2)	25 Kgs	Industria
Powder 5	Kgs I	ndustrial	Acetone (Cas no:- 67-64-1)	200 Ltrs	Industria
Details : Photo cleaning			Ammonia (Cas no:- 7664-41-7)	50 Kgs	Industria
Product Name	Qty	Grade	Hyflow (Cas no:- 61790-53-2)	50 Kgs	Industria
			Activated Carbon (Cas no:- 7440-		
Nateglinide API [ENA16381] Paroxetine HCl	20 Kgs	Industrial	44-0)	25 Kgs	Industria
Hemihydrate API	700 Kgs	_	Ethyl Succinyl Chloride (Cas no:- 14794-31-1)	25 Kgs	Industria
Flurbiprofen API	5 Tonne	s Industrial	Sodium Bicarbonate (Cas no:-		
Purified Water (Cas no:- 7732-18- 5)	200 Ltrs	Industrial	144-55-8)	25 Kgs	Industria
Methanol (Cas no:- 67-56-1)	200 Ltrs	Industrial	Sodium Hydroxide (Cas no:-	25 Kgs	Industria
HCL (Cas no:- 7647-01-0)	50 Ltrs	Industrial	1310-73-2)		_
Di-methyl Formmide (Cas no:- 68-12-2)	2 Kgs	Industrial	Ethyl Acetate (Cas no:- 141-78-6) Erythromycin thiocynate (Cas no:-	200 Ltrs 50 Kgs	Industria Industria
Copper(II) Acetate Mono Hydrate (Cas no:- 142-71-2)	5 Kgs	Industrial	231-723-1) (4R)-3-[(25,5R)-5-(4-Flu-		
Sodium Carbonate (Cas no:- 497- 19-8)	25 Kgs	Industrial	orophenyl)-2-[(R)-[(4- fluorophenyl) amino] [4-[(trimethylsilyl)oxy]phenyl]	500 Kgs	Industria
Toluene (Cas no:- 108-8-3)	200 Ltrs	Industrial	methyl]-1-oxo-5-[(trimethylsilyl)	500 1450	industria
2,3 Xylidine (Cas no:- 87-62-7)	25 Ltrs	Industrial	oxy]pentyl]-4-phenyl-2- oxazolidi-		
Ortho Chloro Benzonic Acid (Cas no:- 118-91-2)	50 Kgs	Industrial	none (CAS NO:- 27277812-8) (-)-1-[(4-Chlorophenyl)phenyl-		
Isopropyl Alcohol (Cas no:- 67- 63-0)	200 Ltrs	Industrial	methyl]piperazine; (R)-1(p-Chlo- robenzhydryl)piperazine (CAS	100 Gms	Industria
Dimethyl Sulphoxide (Cas no:- 67- 68-5)	200 Lts	Indusr- trial	NO:- 300543-56-0) 2-[2-[4-[(R)-(4-Chlorophenyl)		
N-Methyl Piperazine (Cas no:- 109-01-3)	50 Ltrs	Industrial	phenylmethyl]-1-piperazinyl] ethoxy]-acetamide (CAS NO:-	100 Gms	Industria
Ofloxacin Q Acid (Cas no:- 82419- 35-0)	50 Kgs	Industrial	909779-33-5) Levocetirizine Dihydrochloride	100 Gms	Industria
Formic Acid (Cas no:- 64-18-6)	25 Kgs	Industrial	(CAS NO:- 130018-87-0)		industria
Formaldehyde (Cas no:- 50-00-0) Dichloromethane (Cas no:- 75-	50 Ltrs	Industrial	3-(Trifluoromethyl)-5,6,7,8-tet- rahydro-triazolopyrazine Hydro-	2000 V co	Industria
09-2)	200 Ltrs	Industrial	chloride (CAS NO:- 762240-92-6)	Kgs	
Sodium Borohydride (Cas no:- 16940-66-2)	25 Kgs	Industrial	(3R)-N-(tert-Butoxycarbonyl)- 3-amino-4-(2,4,5-trifluorophenyl)	2000 Kgs	Industria
Methane Sulfonyl Chloride (Cas no:- 124-63-0)	25 Ltrs	Industrial	butanoic (CAS NO:- 486460-00-8) Carbonyl diimidazole (CAS NO:-	2000	Industria
Acetic Acid (Cas no:- 64-19-7)	50 Lts	Industrial	530-62-1)	Kgs	Industria
Hydroxylamine hydrochloride (Cas no:- 5470-11-1)	25 Kgs	Industrial	Details : Chemicals Required for Pr Trials, More quantity required after		lopment La
Erythromycin Base (Cas no:- 114- 07-8)	25 Kgs	Industrial		<u> </u>	Grade
Propionic Anhydride (Cas no:- 123-62-6)	25 Kgs	Industrial	Drums	2000 Drums	NA 🕓
Sodium Lauryl Sulphate (Cas no:- 151-21-3)	25 Kgs	Industrial	Details : HDPE drums Capacity 200 Please reply at the earliest. Needed		

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Buy Enquiries

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 in	nfo	

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-HEXADI- ENYL 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: bu- tyllithium 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			



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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		$\mathbf{\Sigma}$

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

Product Name	Qty	Grade
Caluanie Muelear Oxidize	10 Ltrs	Industrial
Details : 10 Litres & once set		
will increase the quantity.		$\mathbf{\Sigma}$

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

Product Name	Qty	Grade
Ditolyl ether	1000	Chemical
	Drums	Chemieur

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

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

3D Printing Material Market is Probable to Influence the Value of USD 6 Billion, with Growing CAGR of 23% by 2028

Exactitude Consultancy, the market research and consulting wing of Ameliorate Digital Consultancy Private Limited has completed and published the final copy of the detailed research report on the 3D Printing Material Market.

Innovation and expansion in 3D printing materials and technology will create lucrative opportunities for the global 3D printing materials market.

PUNE, India, May 16, 2023 /PRNewswire/ -- The 3D printing material Market is expected to grow at more than 23% CAGR from 2023 to 2028. It is expected to reach above USD 6 billion by 2028 from a little above USD 2 billion in 2022.

3D printing is a type of additive manufacturing in which a three-dimensional object is created through the layering of printing materials. 3D printing materials have improved properties like durability, flexibility, stability, and sensitivity. ABS, polylactic acid or polylactide (PLA), plaster, silica, alumina, titanium, tissues, waxes, and laywood are all common materials used in 3D printing.

To some extent, plastics provide design flexibility, durability, and biodegradabil-

ity. Plastics are also available in a variety of colours. Plastics, on the other hand, have limited weathering resistance. Metals are strong, malleable, and corrosion-resistant; however, they are costly and have limited design flexibility.

Read the full report : <u>https://exacti-tudeconsultancy.com/reports/1804/</u>3d-printing-material-market?mode=P166/#request-a-sample_

If you want your report abstract to be published please contact <u>info@chemi-calmarket.net</u>

Advanced Ceramics Market is Probable to Influence the Value of USD 142.63 billion, with Growing CAGR of 4.1% by 2029

PUNE, India, June 2, 2023 /PRNewswire/ -- Exactitude Consultancy, the market research and consulting wing of Ameliorate Digital Consultancy Private Limited has completed and published the final copy of the detailed research report on the Advanced Ceramics Market.

The Advanced Ceramics Market is expected to grow at 4.1% CAGR from 2022 to 2029. It is expected to reach above USD 142.63 Billion by 2029 from USD 99.35 Billion in 2020.

Advanced ceramics are a class of materials composed mostly of inorganic

compounds such as oxides, nitrides, and carbides. Because of their exceptional mechanical, thermal, and electrical properties, these materials are valuable for a wide range of applications in industries such as aerospace, energy, electronics, and biomedical engineering. Advanced ceramics are distinguished from traditional ceramics by their improved performance and manufacturing procedures. In contrast to conventional ceramics, which are made by burning clay-based materials at high temperatures, advanced ceramics incorporate the synthesis of complex compounds through chemical processes and careful

control of the microstructure.

Advanced ceramics are becoming increasingly important due to their unique properties and expanding demand in a variety of industries. Because of their great strength, hardness, and wear resistance, these materials are ideal for applications requiring toughness and longevity. Because of their excellent thermal stability and superior electrical insulation, they can withstand extremely high and low temperatures as well as harsh situations. Advanced ceramics are used in a variety of applications, including cutting tools, bearings, armour,



electronics, and medical implants. They are also employed in the development of renewable energy technology like as fuel cells and solar cells.

To make advanced ceramics, a number of processing techniques such as powder synthesis, sintering, hot pressing, and chemical vapour deposition are used. These techniques necessitate the use of specialised instruments as well as precise control over temperature, pressure, and other variables in order to achieve the desired microstructure and properties. In order to increase productivity and minimise costs, researchers in the field of advanced ceramics are constantly studying new materials and processing techniques.

Read the full report : https://exacti-

tudeconsultancy.com/reports/17781/ advanced-ceramics-market/#request-a-sample

If you want your report abstract to be published please contact <u>https://www.re-</u>searchandmarkets.com/r/5gk0l

OurX Brings Overdue Technology and Personalization to Textured Hair Care

NEW YORK, June 6, 2023 /PRNewswire/ -- OurX, a first-to-market, data-tech platform with the mission to bring personalized, high-performance innovation to the underserved textured hair consumer, launches today. OurX provides an individualized system of personalized regimens, one-on-one hair coaching, education, and community support to take the guesswork out of hair care.

Veteran music executive, investor, and board member Ceci Kurzman developed the business plan for OurX in response to the lack of investment, innovation, and data focused on textured hair. Kurzman was frustrated that business model innovations that were commonplace in the general market have been slow to include this powerful category of textured-hair consumers.

"Presently, hair care remains segregated in the beauty and personal care industry, with solutions for those with textured hair remaining separate and unequal," says Kurzman, founder of OurX. "While celebrating the many powerful brands already shaping this category, OurX endeavors to use proven data to combat an oversimplified, one-size-fits-all view of the textured hair consumer."

With a seed round led by Reign Ventures, OurX set out to build an intentionally diverse investor base. Additional mission-aligned angel investors include some of the most successful female entrepreneurs from the beauty and tech industries.

"We celebrate the visionaries at OurX who have unlocked a realm of personalized regimens, expert coaching, and transformative education for the diverse and intricate world of highly textured hair," add Monique Mosley and Erica Duignan Minnihan, General Partners of Reign Ventures. "Their commitment to empowering individuals with tailored solutions sets a new standard in the industry, amplifying inclusivity and fostering genuine self-expression."

OurX will leverage advanced AI and proprietary algorithms to deliver an unparalleled, personalized digital experience through content, coaching, and interactive education. Users will access OurX initially through its web-based app on ourx.co and take an in-depth assessment that collects comprehensive data touchpoints, from their hair and scalp attributes to their lifestyle and preferences. The assessment includes a series of at-home hair health tests and personalized educational prompts that are responsive to the user's inputs. The analysis of this data, combined with the input of certified hair experts, provide consumers with a daily regimen and insights on how to achieve optimal hair health.

The consumer's personalized OurX regimen includes a curation of high-performance treatment-based products, developed by OurX specifically for textured hair to achieve hair and scalp health. OurX products are formulated to work together, with each product boosting the efficacy of the others in a streamlined regimen. Featuring skincare inspired ingredients like hyaluronic acid and squalane, combined with innovative ingredients such as AI-created peptides, OurX provides access to safer, science-backed and effective products engineered for the textured-hair consumer.

Leading style and education for OurX is Johnny Wright, a stylist with over 30 years of experience to some of the most well known (and healthiest) heads of hair including Michelle Obama, Kerry Washington, and Tamron Hall. The OurX expert team also includes Harvard-educated and board-certified dermatologist Dr. Jenna Lester, founder of the Skin of Color program at University of California, San Francisco (UCSF).

Read the full report : <u>https://ourx</u>

If you want your report abstract to be published please contact <u>https://www.re-</u> searchandmarkets.com/r/5gk0l



News Round Up

New in the Hohenstein Portfolio Protective Clothing and Gloves Against Chemicals and Infectious Agents

BÖNNIGHEIM (aba) Since April 2023, the testing service provider Hohenstein has been testing and certifying in two new areas in the field of protective clothing: protective suits and gloves against chemicals and infectious agents. These are covered by Regulation (EU) 2016/425 and are therefore personal protective equipment (PPE). They protect people who do valuable and sometimes dangerous work for our society.

Protective clothing against infectious agents is used in many types of work: for example, work at sewage plants, waste disposal, animal care, disposal of hazardous waste from hospitals, etc. Workers are exposed to unknown infectious agents (microorganisms, parasites). The protective clothing should protect wearers from the mediums in which the microorganisms are contained, such as liquids, aerosols or solid dust particles.



A chemical protective clothing is a personal protective equipment that protects the person wearing it from chemicals that surround him/her in a gaseous, liquid and / or solid state. They are classified into 6 types with different protection levels from gas-tight to restricted liquid-tight.

Hohenstein tests and certifies the following types:

- EN 14605: Protective clothing against liquid chemicals: Liquid-tight (type 3) or spray-tight (type 4) as well as partial protection types PB[3] and PB[4]
- EN 13982-1: Protective clothing against airborne solid particulates: Type 5
- EN 13034: Protective clothing against liquid chemicals: Type 6 and PB[6] Source : Chemical Markert

Artificial Intelligence Helps Shape Change In The Chemical Industry

The industry is discovering more and more possibilities for the use of artificial intelligence (AI). However, when implementing and using AI in the chemical industry, many peers face similar challenges that still need to be solved. For this reason the chemical companies Covestro and Evonik as well as the consulting firm Accenture invited managers from production and technology divisions of Bayer, Clariant, Wacker, Shell, Lanxess and other companies to a two-day Chemicals Peer Exchange for the fourth time.

"For me, the chemical industry is pre-

destined for the use of AI because we have a lot of complex processes going on that cannot be described by fixed rules," says Walter Grüner, Head of IT & Digitalization at Covestro. "They are not suitable for automation. We rather need learning systems to which we grant a certain degree of decision-making autonomy. In doing so, we focus primarily on the development of systems that work in a complementary manner to humans and support their abilities."

With the introduction of AI in the chemical industry, questions about technical, operational and organizational implementation are also increasingly emerging. This includes, for example, the role of AI in decision-making, but also its implementation along value chains.

Artificial Intelligence – great opportunity for chemical industry

Under the motto "Shaping industrial change with AI", the participants exchanged in a generic way views on the following topics:

• AI system to assist decision making

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AUTOMOBILES ·

BASF TO INVEST IN ANODE BINDER PRODUCTION ASSETS FOR THE LITHIUM-ION BATTERY INDUSTRY

- Two production plants will be modified to produce a wide range of high-performance Licity[®] and Basonal Power[®] anode binders for lithium-ion batteries
- Modifications will enable capacity of more than 100,000 metric tons per year to support a stable supply of anode binders from mid-2023 onwards, to support growth in the EV market

Hong Kong SAR, China – May 11, 2023 – BASF has announced an investment in the production of water-based anode binders to support the lithium-ion battery industry. The new binders will be produced at two existing dispersion plants in Jiangsu and Guangdong, China. In addition to their existing product portfolios, the two plants will produce two innovative anode binders: Licity[®] and Basonal Power[®] based on modified styrene-butadiene rubber (SBR). The new range of products is expected to come on stream from mid-2023.

Anode binders are small but important components that greatly impact battery performance and stability. BASF's water-based anode binders offer customers a sustainable option with high-quality and stable performance. The innovative BASF binders increase battery capacity, improve cycle stability and reduce battery charging time. The investment is driven by growing demand for the lithium-ion battery market including the electric vehicle (EV) segment.

The investment will enable the production of a wide range of high-performance Licity[®] and Basonal Power[®] anode binders, making a strong addition to existing product portfolios. "Our customers are looking for stable supplies of high-quality products at a competitive cost," said Mirian Tiemi Zanchetta-Sbragia, Vice President of Business Management in **Dispersions in BASF Asia** Pacific. "Our growing range of innovative products and our local testing facilities will give our customers the competitive edge they need in the market."

Andreas Fechtenkoetter, Senior Vice President of Dispersions in BASF Asia Pacific, commented, "We are pleased to support the rapid growth of our customers in energy storage and the EV space. This will further strengthen BASF's position as one of the most reliable suppliers in the region."

BASF's binders are specifically designed to overcome different limitations of lithium-ion batteries, e.g., performance at low temperatures. They are waterborne binders with high colloidal stability that are very compatible with co-binders such as Carboxymethyl Cellulose (CMC). BASF's binders are characterized by excellent processability and superior coatings behavior. Furthermore, they have outstanding mechanical and electrochemical properties. The BASF dispersions business unit operates three production plants in China. The dispersions sites in Jiangsu and Guangdong started operations in 2002 and 2012 respectively.

Source : BASF

STRENGTHENING THE SUPPLY CHAIN FOR FORMULATED ELECTROLYTES FOR LITHIUM-ION BATTERIES IN NORTH AMERICA THE MCG GROUP STARTS CONSIDERING COLLABORATION WITH A KEY BATTERY MATERIAL SUPPLIER IN THE U.S.

The Mitsubishi Chemical Group (the MCG Group) hereby announces that on April 11th, 2023, it signed a memorandum of understanding with Koura, an Orbia business (Head office: Massachusetts, USA), and one of the world's largest producers of fluoroproducts and advanced technologies. Together they will study collaboration for various purposes, such as strengthening the supply chain for formulated electrolytes for lithium-ion batteries (LIBs) in North America.

The MCG Group's formulated electrolytes with high output exert excellent durability and safety by controlling side reactions on the surface of electrodes



using the MCG Group's own additive technology. As a result, the electrolytes have been widely used for automotive LIB applications. The MCG Group, which owns production bases for formulated electrolytes in four countries, has enhanced its electrolyte production capacity in accordance with the growing demand for xEVs.

With the enactment of the Inflation Reduction Act (IRA) of 2022 in the U.S., automakers and battery cell manufacturers have accelerated local production of batteries for automotive applications and local procurement of parts and raw materials within North America.

To meet the demand, the MCG Group will enhance the supply chain for formulated electrolytes and advance technology in collaboration with Koura. The company has established the first U.S. production facility for lithium hexafluorophosphate (LiPF6), a critical lithium-ion battery material. The plant is located in Louisiana and plans to start operation of the facility in late 2025. With the signing of the memorandum, the MCG Group and Koura will consider specific details of the collaboration and business schemes in North America.

Source : Mitsubishi Chemical

AUTOLIV TO LAUNCH ITS FIRST MOTORCYCLE AIRBAG IN 2025

A utoliv, Inc. is pioneering improved safety for 200 million road users through its holistic approach to motorcycle and scooter safety. The first new motorcycle safety product to reach the market will be the bag-on-bike airbag, with production beginning in Q1 2025. The bag-on-bike airbag can significantly reduce the risk of serious injury for powered two-wheeler riders in frontal crashes.

The number of powered two-wheelers continues to rise, due to widespread urbanization and the practicality of powered two-wheelers. Today, many scooters and motorcycles are equipped with advanced safety systems, such as ABS (Antilock Braking System) and ASR (Anti-Slip Regulation), and the addition of airbags will be a further step in this direction. Powered two-wheeler riders have not benefited to the same extent as

car occupants from the many developments in vehicle safety.

"Autoliv is committed to our vision of Saving More Lives and to providing world class life-saving solutions for mobility and soci-

ety. Therefore, we are developing products that specifically protect vulnerable road users, such as riders of powered two-wheelers. The development of these products is an integral part of our sustainability agenda," said Mikael Bratt, CEO and President, Autoliv.

The bag-on-bike airbag - a complete airbag system

Autoliv's extensive research into powered two-wheeler riding behavior and crashes has resulted in two sets of solutions - on-vehicle safety solutions and on-rider safety solutions. The first product to reach the market will be the bagon-bike airbag, which is planned to go into production with the first customer in 2025.

"Our goal is to offer a complete and cost-efficient bag-on-bike system to facilitate the introduction of this technology for a wide variety of motorcycles. The Autoliv bag-on-bike airbag system will include an airbag and an optional in-house-developed electronic crash sensor to complete the system," said Jordi Lombarte, Chief Technical Officer, Autoliv.

Evolving safety regulations for powered two-wheelers

"To reach the global target of halving road traffic fatalities we need to increase the safety for powered two-wheeler riders. Through working with real life data, we understand the most frequent crashes and injury types and how to assess them in a laboratory environment.



Through virtual and physical testing, we have demonstrated the benefit of the airbag in frontal crashes, and we acknowledge that there is a need for additional solutions to

cover more crash situations and rider behaviors," said Cecilia Sunnevång, Vice President Research, Autoliv.

The safety of motorcycle riders is the focus of many regulators and consumer crash test organizations. Euro NCAP is targeting enhanced motorcycle rider safety by expanding vehicle crash avoidance testing to include powered two-wheeler crash scenarios. In Asia, the Malaysian Institute of Road Safety Research (MIROS) indicates that the rating of on-vehicle safety solutions will be adopted in 2024 in their Malaysian Motorcycle Assessment Program (My-MAP).

Source : Automotive Technology

HYUNDAI MOTOR GROUP AND LG ENERGY SOLUTION TO ESTABLISH BATTERY



CELL MANUFACTURING JOINT VENTURE IN THE U.S.

Hyundai Motor Group and LG Energy Solution announced an EV battery cell manufacturing joint venture in the U.S. today.

Hyundai Motor Group and LGES signed a memorandum of understanding to produce EV batteries in the U.S. and further accelerate the Group's electrification efforts in North America. The signing ceremony took place in LGES's headquarters in Seoul on May 26 with the attendance of Jaehoon Chang, President and CEO of Hyundai Motor Company and Youngsoo Kwon, CEO of LG Energy Solution.

The Group and LGES will each hold a 50 percent stake in the JV, which will involve an investment of over USD 4.3 billion (KRW 5.7 trillion).

"Hyundai Motor Group is focusing on its electrification efforts to secure a leadership position in the global auto industry. We will create a strong foundation to lead the global EV transition through establishing a new EV battery cell plant with LG Energy Solution, a leading global battery producer and longtime partner," said Jaehoon Chang, President and CEO of Hyundai Motor Company.

"Two strong leaders in the auto and battery industries have joined hands, and together we are ready to drive the EV transition in America," said Youngsoo Kwon, CEO of LG Energy Solution. "By further advancing our product competitiveness and global operational expertise, LG Energy Solution will commit our best efforts to offering the ultimate sustainable energy solutions to our customers."

The annual production capacity of the new joint venture is at 30 GWh, able to support the production of 300,000 units of EVs annually. The facility will be in Bryan County, Savannah, Georgia, adjacent to Hyundai Motor Group Metaplant America, currently under construction.

Starting construction in the second half of 2023, the joint venture plans to start battery production at the end of 2025 at the earliest.

Hyundai Mobis will assemble battery packs using cells from the plant, then supply them to the Group's U.S. manufacturing facilities for production of Hyundai, Kia and Genesis EV models. The new facility will help create a stable supply of batteries in the region and allow the Group to respond fast to the soaring EV demand in the U.S. market.

With this JV, LGES now has seven battery plants currently operating or being constructed in the U.S., where the company is concentrating most of its resources to expand the production capacity. By ramping up its local production, LGES aims to provide innovative products both in scale and with speed, thereby expediting the clean energy transition in the U.S.

The Group and LGES have long been partners in the field of electrification having worked on the supplies of EV batteries for vehicles, including Elantra Hybrid, Kona Electric, and IONIQ 6 dedicated EV. The Hyundai Elantra Hybrid, LPi hybrid vehicle introduced in 2009, was the Group's first electrified model. In 2021, both started construction of the Indonesia battery cell JV which is set to start production in the first half of 2024.

The Group and LGES aim to further strengthen the ties going forward with the EV battery cooperation.

Source : Automotive Technology

WAE TECHNOLOGIES TO LAUNCH NEW STRUCTURAL BATTERY PACK AT THE BATTERY SHOW EUROPE 2023

WAE, the world-leading technology and engineering services business, will be debuting a host of electrification innovations at the Battery Show Europe, taking place in Stuttgart, including the launch of an advanced new structural battery pack for the low-volume automotive sector.

Held between 23-25 May 2023 at Messe Stuttgart, in Germany, Battery Show Europe is Europe's largest trade fair and conference for advanced battery manufacturing and technology, with over 10,500 attendees.

Visitors will be able to see the global launch of the company's new Cell2Pack demonstrator, a cutting-edge structural battery pack system, which features host of advances which combine to improve electric vehicle structural stiffness, lower weight and improve overall range, at low production volumes.

A Lead Engineer of Battery Integration at WAE, Sian Wyles, will be delivering a presentation on this innovative new design, while the WAE stand will also feature the battery show debut of Elysia – Battery Intelligence from WAE, a ground-breaking new offering which delivers the latest in battery software to the mass market. Craig Wilson, WAE Technologies CEO, said: "We are proud to be exhibiting at this year's Battery Show Europe, in Stuttgart. As the largest event in the advanced battery manufacturing and technology industry, it's the perfect place for us to be showcasing the very best of WAE's innovations in cutting-edge electrification. With Cell-2Pack we have an advanced new structural battery design that has huge positive implications for the low-volume automotive sector, while with our new Elysia battery intelligence offering we are bringing game-changing battery software to the mass market."

Source : Automotive Technology

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<u>The</u> <u>invest-</u> <u>ment</u> will

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Source : BASF



DRUG AND PHARMA -

UNIVAR SOLUTIONS EXPANDS SPECIALTY PHARMACEUTICAL AND NUTRACEUTICAL INGREDIENT PORTFOLIOS WITH GRACE SYLOID® FP SILICA FOR MAJORITY OF EUROPE

DOWNERS GROVE, Ill., June 8, 2023 / PRNewswire/ -- Univar Solutions Inc. (NYSE: UNVR) ("Univar Solu-

tions" or "the Company"), a leading global solutions provider to users specialty of ingredients and chemicals, today announced the Company reached has



an agreement with W. R. Grace & Co. ("Grace") to distribute Grace's SYLOID[®] FP silica for pharmaceutical and nutraceutical markets in the majority of European countries^{*}. The agreement builds upon the existing global relationship between Univar Solutions and Grace in the United States, Brazil, Mexico, and the majority of Europe providing customers access to this multifunctional excipient used in over the counter and prescription drug delivery solutions and supplements.

"Excipients are emerging as strategic drug enhancement tools in the growing pharmaceutical and nutraceutical markets. We are extremely pleased to further extend our longtime partnership with Grace, a leading excipient manufacturer," said James Peterson, global vice president, pharmaceutical ingredients for Univar Solutions. "Grace and its customers in major European markets will benefit from our dedicated sales and product management teams, application-specific technical support, and complementary product portfolio. We look forward to helping expedite any qualification processes with our global regulatory resources, product samples, and technical application expertise."

Grace SYLOID[®] FP silica contributes efficiency and performance in many pharmaceutical and nutraceutical applications, helping to address powder flow and caking challenges. SYLOID[®] FP silica is engineered hydrated silicon diox-

ide produced under controlled conditions, meeting USP/ NF, EMA, JP, and ANVISA requirements and offering high chemical purity and performance. SYLOID[®] FP silica is easy to incorporate, offering optimal performance as a glidant, carrier for active in-

gredients, tableting aid, thickener and disintegrant, which helps improve the handling, adsorption, and dissolution of many pharmaceuticals and nutraceuticals. The excipient's unique design combines adsorption capacity, particle size, density, and internal surface area to provide multifunctional benefits or optimize an application. This helps minimize the number of excipients used and the complexity of formulations while expediting manufacturing, ultimately improving the efficacy of the final dosage form.

"Univar Solutions is a world-class organization with an excellent track record in delivering high-val-



ue specialty products and services to pharmaceutical and nutraceutical markets. Grace is proud to partner with Univar Solutions and support their portfolio expansion with the addition of SYLOID® FP silica, a leading multi-functional excipient trusted by global organizations for over 50 years," said John Gilbert, vice president, sales for Grace Materials Technologies.

Source : PRNewwire

LUPIN ANNOUNCES THE LAUNCH OF CETUXIMAB

Mumbai, May 30, 2023: Global pharma major Lupin Limited (Lu-pin) today announced a strategic collaboration with Enzene Biosciences to launch Cetuximab in India, the first biosimilar developed for Cetuximab. This collaboration marks a significant milestone in expanding therapeutic options and fostering innovation in the critical area of treatment of head and neck cancer. Cetuximab has received approval from the Drug Controller General of India (DCGI) for its effectiveness in treating head and neck cancer, particularly Squamous Cell Carcinoma of the Head and Neck (SCCHN), making it a crucial solution for patients with recurrent locoregional or metastatic conditions. Cetuximab is available as a 100mg vial.

Head and neck cancer presents a significant public health challenge in India, with a staggering annual incidence of over 100,000 new cases. This malignancy affects critical regions of the head and neck, including the oral cavity, pharynx, larynx, and sinuses. The disease is often diagnosed at advanced stages, making effective treatment increasingly challenging. As a result, head and neck can-

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cer carries a substantial burden, leading to significant difficulties in providing effective treatment and resulting in high mortality rates.

Commenting on the launch, Rajeev Sibal, President - India Region Formulations, Lupin said, "The launch of first biosimilar Cetuximab reflects our steadfast dedication to improving access to solutions and enhancing patient outcomes. Through this collaboration, we empower healthcare professionals with a transformative and affordable solution that holds the potential to make a significant impact on the lives of those facing this challenging disease."

Source : Lupin

GSK LAUNCHES SHINGRIX IN INDIA-A VACCINE FOR THE PREVENTION OF SHINGLES IN ADULTS AGED 50 YEARS AND ABOVE

- Global data show that 1 out of 3 people develops shingles in a lifetimeⁱ
- The vaccine has proven efficacy of >90% against shinglesⁱⁱ

 Shingrix can provide at least 10 years of protection against shinglesⁱⁱⁱ

GlaxoSmithKline Pharmaceuticals Ltd, today, announced the launch of Shingrix (Zoster Vaccine Recombinant, Adjuvanted) in India, for the prevention of shingles (herpes zoster) and post-herpetic neuralgia in adults aged 50 years and above. Shingrix is the world's first non-live, recombinant subunit vaccine to be given intramuscularly in two doses. Shingles is caused by the reactivation of the varicella zoster virus (VZV), the same virus that causes chickenpox.

A seroprevalence study in Indian subjects showed that by the age of 40 years more than 90% had this virus in their body and were vulnerable to shingles. iv Shingles causes a painful rash. In all cases, the rash disappears, but in a large number of cases, the pain persists for months or years. This pain is known as post-herpetic neuralgia (PHN).^v

Bhushan Akshikar, Managing Director, GlaxoSmithKline Pharmaceuticals Limited says, "GSK is pleased to bring Shingrix to protect India's 260 million adults above 50 years of agevi from shingles and its complications. Existing treatment options may not give complete relief from this pain. Vaccination is the only effective preventive option. We are pleased to add Shingrix to our adult vaccination portfolio and make it available across the nation."

Adults above 50 years of age and those suffering from chronic conditions such as diabetes, heart disease and kidney diseases are at an increased risk of developing shingles because of weakened immunity. The risk of developing post-herpetic neuralgia is 30% higher and the pain is more debilitating in adults above 50 years of age.vii This pain can even cause psychological disturbances and increased dependence on caregivers.viii Shingles can also lead to complications such as vision loss and hearing loss in older adults. Since Shingrix is a non-live vaccine it can be offered to those, above the age of 50 years, who are immunocompromised and/or immunosuppressed and who are potentially at a greater risk of Shingles disease.

Shingrix was approved by the U.S. Food and Drug Administration (FDA) for the prevention of shingles in adults 50 years of age or older in 2017. The European Commission gave Shingrix approval for the prevention of shingles in adults 50 years of age or older in 2018.

Source : GSK

NOVARTIS BOLSTERS INNOVATIVE MEDICINES STRATEGY AND RENAL PIPELINE WITH AGREEMENT TO ACQUIRE CHINOOK THERAPEUTICS FOR USD 3.2BN UPFRONT (USD 40 / SHARE)

Basel, June 12, 2023 — Novartis today announced that it has entered into an agreement to acquire Chinook Therapeutics, a Seattle, WA, based clinical stage biopharmaceutical company with two high-value, late-stage medicines in development for rare, severe chronic kidney diseases. The agreed deal, which is subject to customary closing conditions, is fully in line with Novartis strategy to focus on innovative medicines and will significantly expand its renal portfolio, complementing the existing pipeline.

"IgA Nephropathy is a devastating disease mostly affecting young adults and potentially leading to dialysis or kidney transplantation. We are excited by this



unique opportunity to address one of society's most challenging healthcare issues, with the potential to bring additional much-needed treatment options to patients." said Vas Narasimhan, M.D., CEO of Novartis. "We look forward to closing the deal, to a smooth transition for Chinook employees and to welcoming them to Novartis".

Chinook's pipeline includes two latestage assets in clinical development to treat Immunoglobulin A Nephropathy (IgAN), a progressive, rare kidney disease that mostly affects young adults and currently lacks targeted treatment options. As many as 3 in 10 patients progress to kidney failure and dialysis within 10 years1,2.

Atrasentan, an oral endothelin A receptor antagonist (ERA), currently in Phase 3 development for IgAN with pivotal readout expected in Q4 2023, has shown significant reductions in proteinuria.

Atrasentan is also in early-stage development for other rare kidney diseases.

Zigakibart (BION-1301) is a subcutaneously administered anti-APRIL monoclonal antibody; a Phase 3 trial in IgAN is expected to start in Q3 2023.

Chinook has deep expertise in modeling and understanding kidney disease and a promising early pipeline to address a number of severe renal conditions.

Source : Novartis

CHEMICAL TECHNOLOGY .

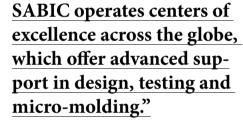
SABIC TO FEATURE AT SENSORS CONVERGE 2023 AWARD-WINNING, REFLOW SOLDERABLE EXTEM™ RESIN THAT CAN BE USED FOR OPTICAL LENSES

ABIC, a global leader in the chemsors Converge 2023 (Booth #1337) its award-winning EXTEM[™] RH1016UCL resin and other high-performance thermoplastics that can facilitate the adoption of cutting-edge sensor technologies for advanced driver assistance systems (ADAS) and related applications. EX-TEM RH1016UCL resin, which won a 2023 Gold Edison Award, is well suited for ADAS camera near-infrared (IR) lenses, optical transceiver lenses and optical connectors.

"As increasing numbers

of optical sensors are deployed on vehicles and space becomes more precious, fusion-based sensor systems offer a potential solution to that space shortage," said Scott Fisher, business director, ULTEM Resins and Additives, SABIC.

"In turn, the selection of the right materials for these combined sensor systems will be critical for enhancing design flexibility, boosting performance, and maximizing processing speed and efficiency. Our specialty thermoplastics can help achieve these goals. To assist cus-



tomers in realizing the full

potential of our materials,

SABIC's transparent EXTEM and UL-TEM[™] high-heat thermoplastics are

well-suited for refractive and diffractive lenses in optical sensor systems and enable free-form designs and the mass production of millions of parts. EXTEM RH1016UCL resin can withstand the 260°C peak tempera-

ture of lead-free reflow soldering used in printed circuit board (PCB) assembly while maintaining dimensional stability. This capability could help enable optical connectors to be mounted with other components in one step on a printed circuit board, avoiding the separate assembly and alignment processes required for lower-temperature lens materials.



At the conference, SABIC will also spotlight ULTEM and NORYL[™] resins and our award-winning LNP[™] compounds and copolymers that could be used for various other ADAS sensor components, including housings, brackets, antennas, and radar absorbers. These materials can potentially enhance sensor systems by reducing weight, providing electromagnetic interference (EMI) shielding, improving radio wave absorption to reduce noise, providing greater freedom to design complex parts, and simplifying

manufacturing compared to metal. They could also provide IR transparency, thermal conductivity, and dimensional stability for high-precision components. Combined, these features offer design freedom and process simplification, potentially reducing manufacturing cost and complexity.

SABIC will display at its booth IR-transparent lenses micro-molded from UL-TEM resins and LiDAR components made with ULTEM resins and LNP compounds. Sensors Converge 2023 will take place June 20-22 at the Santa Clara Convention Center in Santa Clara, Calif., USA

Source : BASF

EVONIK PARTNERS WITH PRODUCTIONTOGO TO DISTRIBUTE ITS INFINAM® PHOTOPOLYMERS AND FILAMENTS FOR INDUSTRIAL 3D PRINTING

• Distribution agreement effective

June 1, 2023

- ProductionToGo GmbH to distribute Evonik's 3D printing materials in Europe
- New agreement applies to IN-FINAM[®] branded photopolymers and PEEK filaments

Marl, Germany. Evonik announces La new non-exclusive distribution partnership with ProductionToGo for the group's 3D printing materials. Effective June 1st, ProductionToGo will handle distribution of Evonik's photopolymers and PEEK-based filaments of the INFINAM[®] brand in the European Union, Switzerland, Norway and United Kingdom. This partnership represents a step forward for ProductionToGo in expanding its presence as a distributor in the rapidly growing market for high-performance 3D printing materials. Additionally, this agreement will enable Evonik to better reach and serve its customers.

"We are very pleased to collaborate with ProductionToGo as a reliable partner who provides intact and flexible supply chains, and offers a strong customer service focus for our high-performance 3D printing materials. The new partnership is intended to increase the availability of our products for additive manufacturing and thus, 'unbounding 3D printing at scale' by opening up new infinite 3D applications," says Vitor Lavini, Head of the Photopolymers Market Segment at Evonik.

"Adding the fundamental knowledge and capabilities of Evonik's INFINAM materials to our value proposition lets us provide even more highly optimized 3D printing processes for our customers. This will lead to an improvement in both the quality of the parts produced, and the profitability and the sustainability of our customers' processes." says Maximilian Neck, CEO at Production-ToGo. INFINAM® MATERIALS FOR UN-BOUNDING 3D PRINTING AT SCALE

Evonik entered into the photopolymers 3D printing technology two years ago by introducing first INFINAM[®] ready-touse resins for stereolithography (SLA), Liquid Crystal Display (LCD) or Digital Light Processing (DLP) printing. Since then, a total of seven specialized material formulations have been developed and market launched, in order to diversify the additive manufacturing material landscape.

Evonik's entire range of 3D printing materials includes INFINAM[®] branded nylon powders and elastomers, PEEK filaments and specialized photopolymers used in industrial 3D applications. The company's PA12 powders are considered the gold standard in powder bed fusion technologies. Furthermore, Evonik serves the industry's most extensive portfolio of 3D-printable VESTA-KEEP[®] and RESOMER[®] biomaterials for medical technology, which can be used to manufacture medical device parts designed for temporary and permanent body contact.

Evonik's 3D printing activities are bundled in the group's Additive Manufacturing Innovation Growth Field. The strategic focus is on the development and manufacturing of industrial, ready-to-use high-performance materials for all major polymer-based 3D printing technologies. As such, the specialty chemicals company continues to advance 3D printing as a largescale industrial manufacturing technology across the entire value chain.

Source : Evonik

NEW PRODUCTS .

INEOS WORLD FIRST WITH RECYCLABLE FLEXIBLE PACKAGING FILM MADE FROM MORE THAN 50% RECYCLED PLASTIC WASTE

- INEOS announces a world first, producing ultra-thin, rigid film used for recyclable flexible packaging products made from more than 50% recycled plastic
- Achieved by processing INEOS Recycl-IN hybrid resins, which compound recycled plastic waste with highly engineered new resins, using state of the art machine-direction orientation (MDO) technology to make polyethylene film used to manufacture recyclable single polymer flexible packaging products
- Demonstrates that Recycl-IN can be applied to demanding film extrusion applications such as MDO polyethylene – and opens the door to exploring the application of Recycl-IN and MDO technology to other flexible packaging products
- Enables INEOS to make a unique contribution to the development of a circular economy for products that play a valuable role in daily life

INEOS has announced a world first as it has produced ultra-thin, rigid film used for recyclable flexible packaging products made from more than 50% recycled plastic. It is the first time such a high proportion of recycled waste plastic has been used in packaging products. INEOS' polymer know-how and Hosakawa Alpine's state of the art Machine-Direction Orientation (MDO) technology have come together to process Recycl-IN resins containing more than 50% recycled plastic to make polyethylene film. This new film will be used to manufacture recyclable single polymer flexible packaging products that replace difficult-to-recycle multimaterial packaging products.

The INEOS Recycl-IN product range compounds recycled plastic waste with highly engineered new resins. It helps converters and brand owners retain the high quality of their products while increasing recycled content.

The announcement follows INEOS' investment in a new Hosakawa Alpine MDO film line to develop flexible packaging films made from a single polymer family. This approach increases the recyclability of plastic packaging.

Products such as stand-up pouches already provide a convenient, low carbon solution for transporting every-day goods. This further development will ensure that packaging can be manufactured from raw materials containing a high percentage of recycled plastic waste and be recyclable in the future.

The success of this demonstration shows that Recycl-IN can be applied to demanding film extrusion applications such as MDO polyethylene. It enables advanced technical film applications to use mechanically recycled polyethylene. The combination of Recycl-IN resins and this leading technology will enable INEOS to make a unique contribution to the development of a circular economy for these products.

Recycl-IN resins are also certified as providing a reduction in carbon emissions of between 25 and 50 per cent(1) when compared to the use of virgin

feedstocks.

Rob Ingram, Chief Executive, INEOS O&P Europe North, said: "We share people's concerns about plastic waste, showing we can help produce more recyclable end products using large quantities of recycled materials shows our commitment to creating a more sustainable future. Now that we've proved the concept, we open the door to exploring the application of Recycl-IN and MDO technology to other flexible packaging products where we can make a real difference."

Source : Ineos

DUPONT INTRODUCES NOVEL METALLIZATION AND FINISHING SOLUTIONS AT SUR/ FIN SHOW

WILMINGTON, Del., June 6, 2023 /PRNewswire/ -- DuPont (NY-SE:DD) will showcase its novel process solutions for component finishing at SUR/FIN 2023, a conference and trade show dedicated specifically to the surface technology industry. The show will be held from June 6-8, 2023. The Interconnect Solutions (ICS) business, part



of DuPont Electronics & Industrial, will exhibit its novel technologies and products in Booth #455, at the Huntington Convention Center of Cleveland, OH.

"We offer a broad range of green chemistry to advance the UN (United Nations) Sustainable Development Goals (SDGs) and create value for our customers," said Gregory Mitchell, Segment Leader of Electronic & Industrial Finishing, Du-Pont ICS. "Satisfying the diverse and challenging technology requirements must be delivered in a sustainable way. DuPont continues to invest to deliver simpler, faster and more sustainable processes."

The major global markets that utilize component finishing processes are in a period of exciting change, where substitution of mature process technology is driving innovation and opportunity, as well as the demand for improved performance, and elimination of toxic substances.

DuPont ICS has responded to these dynamics and will showcase novel products during SUR/FIN 2023, designed to satisfy reliability, productivity and sustainability requirements. These include:

Nikal[™] BF-100, a high-performance boric acid-free^{*} nickel electrolyte that produces corrosion resistance improvement, with high throw, higher CD range and reduced deposit stress.

Silveron[™] GT-210, a cyanide-free^{*} silver electrolyte producing deposits exhibiting very low friction and wear characteristics, suited to high power connec-

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tors requiring stable low contact resistance connections, as demanded in applications such as EV charging.

Solderon[™] ST-400 high speed matte tin, providing 40% higher plating speed, simplified packaging and analysis, with superior electrolyte stability and deposit performance.

Source : PRNewswire

CLARIANT LAUNCHES DESI PAK[®] ECO WITH NEW BIO-BASED MOISTURE-ADSORBING PACKETS

- Specially-designed packaging solution focused on using raw materials and transportation packaging that have a lower environmental impact
- Plastic-free packs made from raw materials that are sustainably-grown, & non-toxic water based inks and adhesive
- A desiccant containing naturally-occurring bentonite clay, which is responsibly mined and presents a lower lifecycle impact than a synthetic alternative

CHARLOTTE, JUNE 5, 2023

- Clariant, a sustainability-focused specialty chemical company, takes a further step to improve the environmental impact of desiccants by adding plastic-free Desi Pak® ECO moisture adsorbing packets to its range of responsibly-mined, highly-adsorbent, natural clay solutions that help manufacturers and distributors protect sealed packaged goods from moisture damage.

The innovative new moisture-adsorbing packets feature bio-based paper made from raw materials that are sustainably grown and use only water-based inks and adhesive. Available in the standard packets size 1-, 2-, 5-, 10- and 33-grams including custom sizes, they are filled with carefully selected granulated high-grade bentonite clay, which is responsibly-sourced, minimally processed, and offers highly efficient moisture adsorption compared to synthetic alternatives in the most common packaging conditions.

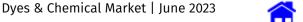
"Moisture control has an integral role in the supply chain in preserving the quality and integrity of products sensitive to moisture and humidity. Moisture-related damage has a known environmental impact, creating waste through discarded goods and emissions associated with replacing damaged goods," comments Ryan Grauer, Head of Sales, Marketing, & Technology, Cargo & Device Protection, Clariant Adsorbents & Additives. "With the increased demand for packaging solutions with a lower carbon footprint, we are excited to offer cus-



tomers the option of bio-based paper packets that deliver the trusted protection performance of our naturally-occurring highly-adsorbent bentonite clay desiccant."

New Desi Pak ECO

packets, the latest addition to Clariant's wide range of Desi Pak desiccant packets & bags, carries the EcoTain®





label, which recognizes products with outstanding sustainability advantages. A Life Cycle Assessment (LCA) on the Desi Pak ECO product was performed based on desiccant manufactured in the United States, demonstrating that the responsibly-mined bentonite clay has a lower carbon footprint and less energy consumption compared to synthetic desic-

cants due to a less complex production process. There is also significantly lower water consumption for raw materials production.

To further help customers reduce their own Scope 3 emissions, Clariant extended the sourcing of raw materials with a lower environmental impact to include transport packaging. The carton packaging used to transport Desi Pak ECO is recyclable and made from sustainably grown raw materials. Further, Desi Pak ECO comes packaged with cobalt-dichloride free (CDF) humidity indicator cards.

Desi Pak ECO packets contribute with effective moisture control and the reduction of carbon emissions associated with the production and transportation of packaging materials for a wide range of applications. Examples include clothing and textiles, automotive, machinery, tools, as well as nutraceuticals, and foods. On request, Desi Pak ECO packets are available with clay desiccant that complies with relevant U.S. FDA (21 CFR) and with U.S. Pharmacopeia USP <670> testing requirements for Auxillary Packaging Components.

Source : Press Release

MERGERS AND ACQUISITIONS -

LYONDELLBASELL **PURSUES NEW ELECTRIC FURNACE TECHNOLOGY. COLLABORATES** WITH TECHNIP **ENERGIES AND CHEVRONPHILLIPS**

HOUSTON, June 1, 2023 /PRNews-wire/ -- LyondellBasell (NYSE: LYB) today announced it has signed a memorandum of understanding (MOU) with Technip Energies and Chevron Phillips Chemical to potentially design, construct and operate a demonstration unit using Technip Energies' electric steam cracking furnace technology (eFurnace by T.EN™). A joint development agreement is expected to be signed later this year.

This new eFurnace technology could enable the company to use renewable electricity as a heat source for the olefins cracking process in the future, significantly reducing the greenhouse gas (GHG) footprint of its olefins production process, and helping the company meet its ambitious climate targets.

"We are taking decisive steps to reduce our absolute scope 1 and 2 greenhouse gas emissions, while creating solutions for everyday sustainable living," said Peter Vanacker, CEO of LyondellBasell. "Deployment of an industrial-scale electric cracking furnace is one option we are considering in this space because of its ability to reduce furnace GHG emissions by up to 90% compared to a conventional furnace."

Construction of the demonstration unit, which would be the first for LyondellBasell, is an essential step in the development of eFurnace technology and a critical pre-condition for potential future construction of a full-scale unit. It will enable the company to test the tech-

nology and confirm continuous olefin production is possible using electricity as a heat source.

"We are delighted to team up with LyondellBasell and CPChem to bring the eFurnace by T.EN[™] to fruition," said Arnaud Pieton, CEO of Technip Energies. "Consistent with our purpose to engineer a much-needed sustainable future, Technip Energies is making huge strides toward reducing the CO2 emissions resulting from the production of ethylene and this design will enable olefins producers to take advantage of the growing supply of available







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renewable energy to operate the most energy-intensive part of the plant."

The LyondellBasell Channelview site offers an optimal environment for the demonstration unit due to its operational excellence, feedstock flexibility and electric grid infrastructure, proximity to the other MOU parties and access to expertise at the company's Houston Technology Center. The three parties plan to assemble a joint development team to support implementation of the project.

"Climate change is a global issue that will take action from all segments of society, and we want to be part of the solution by reducing the intensity of our carbon footprint," said Bruce Chinn, President and CEO of Chevron Phillips Chemical. "This project supports our efforts toward lowering the carbon intensity of our operations and demonstrates our continued focus on accelerating change for a sustainable future."

LyondellBasell is committed to reaching net zero scope 1 and scope 2 greenhouse gas (GHG) emissions by 2050 and has set ambitious interim targets to reduce scope 1 and 2 GHG emissions 42%, and scope 3 GHG emissions 30% by 2030, relative to a 2020 baseline. To reach these targets, the company is deploying emissions reduction initiatives at its sites. The company has also announced plans to develop an integrated hub in Houston to support the growth of its circular and low carbon solutions business, which will leverage existing capabilities at its sites in Houston, such as Channelview.

Source : PRNewswire

TORAY, MITSUI CHEMICALS AND KUMAGAI PUT PEOPLE AND THE

Tokyo, Japan, May 30, 2023 – Toray Industries, Inc., Mitsui Chemicals, Inc., and Kumagai Co., Ltd., announced today that they have jointly developed a revolutionary mono-material film packaging material and manufacturing process that are free of volatile organic compounds (VOCs; see note). Carbon dioxide emissions are 80% lower than from conventional counterparts with this new material, which is also recyclable.

The lightness, transparency, and processing ease of these materials should make them popular choices for refillable pouch applications, including for foods, shampoos, and detergents. The market for these materials should keep growing more than 3% annually (see note 2) as the global population rises.

Regular film packaging material manufacturing uses petroleum solvents inks to print text, images, and other information on plastic films and in adhesives to laminate plastic films. These solvents release VOCs. The equipment required to heat, dry, and incinerate petroleum solvents in inks and adhesives consumes a lot of electricity. The lamination of plastic films with different materials to achieve various functions makes them hard to recycle, leading to their frequent incineration as waste.

VOC emissions from petroleum solvents in film packaging materials production have raised concerns about their impact on work environments. Another issue is the global warming impact of carbon dioxide emissions from their electricity consumption in production processes and from incineration during disposal.

These considerations prompted Toray, Mitsui Chemicals, and Kumagai to develop a mono-material film packaging material and manufacturing technology that is free of petroleum solvents for ink and adhesives and is recyclable.

Toray demonstrated printing for the new material's manufacturing process by employing its Toray proprietary IMPRIMA (see note 3) offset printing plate. The plate uses electron beam-cured printing inks that consumer less electricity need no thermal drying. Mitsui Chemicals verified the lamination process with adhesives that do not incorporate petroleum solvents. The manufacturing process is thus VOCfree because it does not use petroleum solvents for inks or adhesives.

Incorporating Kumagai's package manufacturing and processing technologies resulted in a mono-material film packaging material. This breakthrough makes the material far easier to recycle than regular counterparts.

Under this collaboration, Toray is leading the way with its printing technology. Mitsui Chemicals is providing total coordination for the new setup with its materials technology. Kumagai is leveraging its industry-leading package manufacturing technology. The three look to commercialize the new film packaging material for food and other daily necessities.

They will offer the material to distributors and brand owners to help alleviate the environmental impact of the film packaging industry and contribute to a sustainable economy.

Source : Toray



INTERNATIONAL NEWS

AIR LIQUIDE AND HOLCIM TO COLLABORATE ON A PROJECT TO DECARBONIZE CEMENT PRODUCTION IN BELGIUM

A ir Liquide and Holcim have signed a Memorandum of Understanding (MoU) to pursue a project to decarbonize Holcim's new cement production plant under development in Belgium, using Air Liquide proprietary CryocapTM carbon capture innovative technolo-

gy. In that regard, Air Liquide and Holcim have co-applied for the European Innovation Fund supporting

framework. This partnership is an important step to accelerate the decarbonization of the industry in Belgium.

The new cement production plant announced will be replacing an existing asset. Thanks to Air Liquide's unique carbon capture innovative technology, Holcim will be able to reduce emissions by up to 1.1 million tons per year of CO2. This partnership is part of GO4Zero, Holcim's investment program that will enable the company to achieve carbon neutrality in Belgium by the end of the decade.

Air Liquide will support this initiative by leveraging its know-how and unique expertise in CO2 capture technologies. Air Liquide intends to build and operate a unit of its innovative and proprietary CryocapTM Oxy technology to capture and purify up to 95% of the CO2 generated from Holcim's production unit in Obourg. The captured CO2 will then be handled through Antwerp@C[1] CO2 Export Hub where it will be transported, liquefied and loaded onto CO2 ships for onward permanent and safe offshore storage.

The implementation of the project will be possible as public funding from European schemes supporting decarbonization becomes available. In this perspective, Air Liquide and Holcim have jointly applied for the European Innovation Fund, one of the world's largest programs for promoting innovative low-carbon technologies.

> Pascal Vinet, Senior Vice President and Executive Com-

mittee Member of the Air Liquide Group, supervising Europe Industries, said: The decarbonization of the industry is at the heart of our ADVANCE strategy. We are committed to accompany our customers through providing a wide range of innovative solutions. As an example, Air Liquide's proprietary CryocapTM technology is particularly well suited to decarbonize the cement industry. This collaboration with Holcim illustrates our ability to work with our customers to significantly reduce their CO2 footprint and make the decarbonization of the industry a reality. In line with its sustainable development objectives, which include carbon neutrality by 2050, Air Liquide's ambition is to actively contribute to the emergence of a low-carbon industry.

Source : Air Liquide

GOODFELLOW CAMBRIDGE TARGETS GBP 150000 BOOST WITH CHEMICAL SPACE DEBUT

One of the UK's leading manufacturers of specialist materials and metals has given the scientific industry a major boost this week, with the launch of its new Rare Earth Oxides (REOs) range.

Goodfellow Cambridge Ltd, which employs over 100 people at its Huntingdon factory, is making its debut in the chemical space with a collection of chemical compounds produced by reacting rare earth metals with oxygen.

The company is expecting significant interest from customers involved in electronics, renewable energy, healthcare, and defence, with sales expected to



rocket to £150,000 over the first twelve months due to their unique capabilities and performance.

Dr Aphrodite Tomou, Head of Technical at Goodfellow Cambridge, commented:

"The versatility of rare earth metal oxides is truly remarkable.

"Their unique properties, such as magnetic, optical, and catalytic capabilities,

have made them an integral component in products across multiple sectors that have to operate under demanding circumstances.

"We had noticed that the demand for chemical compounds was rising, so we have reacted by introducing chemicals into our product range, providing businesses and industries with new opportunities for innovation and growth.

"With our commitment to high purity, quality and reliability, our customers can be confident in the consistency and performance of our products, allowing them to focus on their own research and development efforts."

Whilst in its infancy, Goodfellow's REOs offering is already one of the most comprehensive on the market, featuring nineteen product lines purchasable in denominations up to 250g.

Notable Rare Earth Oxides within the range include Cerium Oxide (CeO2), Scandium Oxide (Sc2O3), Lanthanum Oxide (La2O3), and Neodymium Oxide (Nd2O3), with free global delivery as standard.

A 15% discount is available for a limited time to mark the exciting debut, with orders to be placed via telephone or email, quoting the code REO15, before

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June 30th 2023.

Aphrodite concluded: "Rare Earth Oxide powders hold a multitude of appli-

> cations, from Magnetic Resonance Imaging (MRI) to wind turbines. Importantly, the R&D sector are using them

to achieve new results and we're really pleased we can help facilitate this innovation."

Goodfellow Cambridge Ltd is a leading global supplier of metals, alloys, ceramics, glasses, polymers, compounds, composites, and other materials to meet the research, development and specialist production requirements of science and industry.

Source : Chemical Market

LANXESS DOUBLES CAPACITY FOR HIGH-PURITY BENZYL ALCOHOL IN NORTH AMERICA

- Significant capacity expansion at Kalama site successfully completed
- Use in pharmaceutical, consumer care and food applications

Special chemicals company LANX-ESS has doubled its production capacity for benzyl alcohol at its site in Kalama/Washington, USA, to support



the growth of its established customer base in the Americas. The capacity expansion is the result of various technical upgrades.

"With our innovative purification process, LANXESS is the world's leading producer of benzyl alcohol. The Kalama site now serves as the central hub in our global plant network of four sites producing high-purity benzyl alcohol", said Holger Hueppeler, Head of LANX-ESS' business unit Flavors & Fragrances. "By doubling Kalama's production capacity we can provide fast international deliveries and offer a resilient supply chain that can cope with increasing geopolitical uncertainties."

Three grades for a wide range of applications

Benzyl alcohol is used as preservative, solvent, fragrance fixative and intermediate and is highly valued due to its low volatility and low toxicity. The colorless liquid with a pleasant, mild aroma is suitable for all customer needs. The parenteral grade has a purity of 99.9 percent, ensuring the highest quality for pharmaceutical products such as preservatives for injection solutions. The NF/ FCC grade, given to chemicals that meet the requirements of the United States National Formulary (NF) and the Food Chemicals Codex (FCC), is an effective, high purity preservative for personal care products and cosmetics. The stable odor profile is beneficial in the production of fragrances and food flavorings. It can also be used as a solvent in technical applications. The technical grade benzyl alcohol is an excellent solvent and starting material in chemical synthesis.

LANXESS also produces benzyl alcohol at its sites in Krefeld-Uerdingen (Germany), Botlek (Netherlands) and Nagda (India).

Source : Lanxess

News Round Up

Continued from Pg 30

or as an autonomous decision-maker?

- AI awareness, literacy and capabilities
- Production technology vs. supply chain management: independent or joint optimization?
- Needs and requirements for external data generation (monitoring)?

"It is precisely the exchange across company boundaries that helps us a lot in the upcoming transformation because overall challenges become clearer," says Nils Janus, Global Head of Advanced Analytics at Covestro. "This increases efficiency and saves time."

Overall, there was agreement among the participants: Artificial intelligence offers great opportunities for the chemical industry. The new systems help to create a common ecosystem for cross-divisional production planning. It must be

decided on a case-by-case basis and each company has to decide individually

and independently how much autonomy these systems will be given. With re-



nance) data are currently the biggest drivers for using external data sources. Here,



all participants saw opportunities to intensify the use of external sources.

Digitalization drives sustainability

Digitalization is a key driver to improve sustainability and make the circular economy a reality. Covestro is focusing on more data-oriented corporate governance to drive digital transformation.

Covestro is advancing the use of artificial intelligence (AI) both in its own company and in the chemical industry. To this end, the materials manufacturer is investigating how digital technologies can make processes more efficient and sustainable as part of several pilot projects across different divisions.

Source : Covestro

Goodfellow Cambridge Pushes The Next Frontier With GBP 1M Opportunity At Space-Comm Expo

Helping companies and agencies push the boundaries of space exploration and 'in-space' production is driving a major new opportunity for Goodfellow Cambridge.

The specialist supplier of materials and metals has seen interest in its range

grow over 300% in the last three years, driven by a need for lighter and smaller components for use in satellites, robotic arms, telescopes, and the Cassini-Huygens probe that was used to study the planet Saturn and its environment.

Boosted by this £1m+ opportunity,

🔒 📰 📰 🛗

the Huntingdon-based company is set to take its largest ever presence at the Space-Comm Expo 2023, which is due to be held in Farnborough (June 7th-8 th) and will attract thousands of delegates and the legendary UK astronaut Tim Peake. Goodfellow will be taking a major stand (N10) at the industry's leading exhibition, as well as chairing a fireside chat with Adrian Nixon of the International Space Elevator Consortium and a major 'Miniaturisation' panel discussion - featuring Intellegens' Dr Bogdan Nenchev

- exploring in-space R&D, testing and in-situ quality control of advanced materials.

"Space covers a myriad of different industries, many of which we are already successfully supplying. The interest-

ing development - where we can have a big say - is in 'in-space manufacturing' and how you can potentially produce prototypes and components in space," explained Dr Aphrodite Tomou, Head of Technical at Goodfellow Cambridge.

"This is where we've seen a lot of interest in our Macor probes, Aluminium Oxide (Al 2 O 3) ceramics, Gold (Au) wires, Platinum (Pt) tubes, Silver (Ag) and testing foils – materials that have superior thermal properties that can withstand extreme temperatures, resist radiation and, importantly, can be easily manufactured into different complex shapes."

She went on to add: "Space-Comm Expo is a big plat-

form to showcase these materials and to start building new partnerships and relationships. We are really excited about sponsoring the

> Small Sat Theatre, where we can debate some of the

pressing manufacturing and R&D challenges facing the space industry."

Goodfellow Cambridge, which employs over 100 production and technical experts at its Ermine Business Park facility, has been working with the space industry for more than fifteen years, supplying Space Agencies in Asia, Europe, and the USA.

The firm's footprint in the sector has grown year-on-year to take on clients involved in advanced aerospace manufacturing and, more recently, in innovative telescopes that are discovering pioneering firsts and the high-profile Cassini-Huygens Probe - the first human-made object to ever land on a world in the distant outer solar system.

The end use applications of Goodfellow's metals and materials are far reaching and this will be highlighted on its stand at Space-Comm Expo when it displays a SA Catapult demo robotic arm that features product supplied from its factory in Huntingdon.

Aphrodite went on to add: "We have over 150,000 different products on our shelves that thousands of companies, R&D institutions, and academia use every day. However, the big growth market for us is where we can partner with innovators to provide new materials that deliver outstanding performance in harsh environments, but importantly also give clients the opportunity to make things smaller and lighter.

"This is why we are proving so popular with the space industry, and we are now working closely with Space DOTS to look at how we can get more of our materials accredited for use in this demanding sector."

She concluded: "It's also up to us to bring new materials to market and this was typified recently with the launch of Rare Earth Oxides, Customised Alloys and Microfoils."

Source : Chemical Market

The Architecture of Coding, Colors and Customized Fine Jewelry

Have you ever associated manufacturing of plastic parts with terms like style, inspiration or even glamour? In case of the world's first 3D printed fine jewelry by BOLTENSTERN made from Evonik's polyamide 12 multipurpose material for infinite 3D applications, you will. Set in the heart of Vienna — a city renowned for its Baroque and other architectural gems — is a family-owned jeweler that is becoming known for its own form of modern, architectural jewels. Enter Marie Boltenstern, the current CEO and namesake of BOLTENSTERN GmbH, a jewelry brand with a long reputation among connoisseurs for its range of exquisite designs, founded by her father.

Since 2015, however, when Marie took over the company, the brand has been known for its intricate, geometrically shaped jewelry created through 3D printing. An architect by training, Marie's passion for three-dimension-



al shapes and designs carried over into wearable creations when she took over the helm of the company. Her mesmerizing creations come in various stunning materials like 18K yellow gold, and feature diamonds and other gems. Especially unique is their entry brand FAB-NORA, which is created mainly out of Evonik's polyamide 12, or short PA12, a special high-performance material that is designed specifically for a stunningly wide range of 3D applications.

ARCHITECTURE, CODING AND FABULOUS DESIGNS

"In 2015, when I took over the company, my aim was to 3D print 18k gold," says Marie. Fascinated since her architect days by the complex shapes that could be formed through computer programming, Marie started writing her own code to create unique designs for jewelry. "With code, it's possible to create an infinite number of beautiful, elegant shapes," says Marie, "but of course, in a computer everything can look OK. I needed to bring my complex, moveable structures to life."

As printing directly in gold during the developmental phase would have been very costly, Marie started working with PA12 initially as the material for her prototypes. "One day, I was looking over some designs with a friend and I noticed how elegant they looked in the prototyping material, too," says Marie. It was the birth of what was to become the FABNORA entry brand.

A CUSTOMIZED PA12 POWDER 3D PRINTING MATERIAL

A high-performance thermoplastic, Evonik's PA12 is specially designed to be used for additive manufacturing processes such as selective laser sintering (SLS), high-speed sintering (HSS), and multi-jet fusion (MJF). These polyamide-12 based powders have excellent material properties sought after by demanding end-users, including excellent powder flow, high impact strength and high flexibility, and a great surface finish that can be easily dyed after printing.

Initially working with PA12 for her prototypes, Marie realized the potential of the materials' various properties. It was the beginning of what was to become her FABNORA line of jewelry.

"Evonik's PA12 is actually a great asset for jewelry — especially earrings because the resulting product is super light. The material is also very strong, yet to the touch, it feels like fabric. It adapts wonderfully to the body like a second skin," says Marie.

SEASONAL SHADES AND CUSTOM COLORS

Regarding the ability of dyeing PA12 end products, the FABNORA jewelry line comes in a dazzling array of options. "We offer FABNORA in a rainbow of 20 colors that are renewed every summer and winter," says Marie.

The colors range from neutral to super bright tones, and are specially developed by DyeMansion, a German-based company specializing in complete, connected & fully integrated end-to-end solutions for all finishing steps. Thanks to their cleaning solutions (DyeMansion Powershot C), the PolyShot surface finish and the coloring system DM60 and the proper use of these systems by the experienced service provider FORMRISE, the raw parts could be turned into high-value products. - For the FABNORA collection, it was possible to choose from the largest color database available, based on RAL shades or Pantone colors, for example. Thanks to DyeMansion's Color Matching, however, special colors, such as Evonik's deep purple, can also be developed and offered in a reproducible manner.

Coffee & Cases by DyeMansion: Marie Boltenstern, CEO & Head of Design at BOLTENSTERN, gives an insight on the idea behind and the creation of her 3D-printed FABNORA collection. Robert Razavi, CEO & co-founder of FORMRISE tells us more about the demands placed on 3D-printing service providers, the challenges of the 3D-printed earring collection and the benefits of DyeMansion's print-toproduct workflow.

A LEGACY OF INNOVATION

The innovation found in the products of BOLTENSTERN and DyeMansion are only the beginning. Having created its first 3D-printing powders as early as 1996, Evonik remains a pioneer in the development and manufacturing of high-performance materials for the additive manufacturing industry.

Right now, Evonik is focusing on circularity in 3D printing by aligning its INFINAM[®] polyamide 12 powders along improved overall eco-balances. The current materials portfolio is being gradually expanded to include new sustainable ready-to-use products – like the group's new grade of PA12 powders with significantly reduced CO2 emissions.

A FABULOUS ROAD AHEAD

Looking ahead, Evonik plans to continue expanding the possibilities of the additive manufacturing by developing new innovative products to unbound sustainable 3D printing at scale. The company knows the right buttons to optimize production processes and to expand capacities along further market growth.

As for future plans for BOLTENSTERN, Marie is currently looking to expand into more markets within the European Union. As usual, she is also working on some new fabulous designs to be introduced in the FABNORA entry brand.

"One of the inspirations for my designs is to embody the connection between the digital and the physical world," says Marie.

Source : Evonik



Archroma Puts Sustainability In The Spotlight At Bangladesh Denim Expo 2023



for sustainability. Brands that aim to compete in this growth market need to be able to produce denimwear that not only delivers sought-after functional capabilities and desirable aesthetics, but that also comes with low environmental impact.

"Sustainability is a top priority for many brands, and consumers are increasingly conscious of the environmental impact of their choices," said Umberto De Vita, Denim Segment Director, Textile Effects Division, Archroma. "Archroma is challenging the status quo to help denim manufacturers upgrade to more environmentally sustainable solutions while enhancing their competitiveness at the same time. Our innovations make it possible to benefit from efficiency gains and resource savings in the factory as you deliver products that stand out in the market. Because it's our nature."

Sustainable denim solutions

Archroma is showcasing a comprehensive range of sustainable system solutions at the Expo. Among the highlights are DEEP SOUL, a system for overdyeing denim and woven fabrics with low water and energy consumption without compromising the look; PURE INDIGO ICON, an aniline-free* indigo system that pro-

Pratteln, Switzerland, 11 May 2023 - Archroma, a global leader in specialty chemicals towards sustainable solutions, is set to showcase its range of eco-conscious denimwear solutions at the upcoming Bangladesh Denim Expo. Brands and textile mills visiting the international fair in Dhaka from May 16 to 17 will be able to explore the company's full suite of denim solutions, including an innovative new black coloration system.

Demand for denimwear continues to grow globally, but traditional denim production is at odds with modern consumers' expectations

> duces authentic denim without harming the environment; and INDIGO REFLECTION, a coloration system that behaves like indigo but with a more sustainable and efficient process.

> Innovation in black coloration The company is also introducing its latest addition to the denim systems solution, EVOLUTION BLACK, a ground-breaking black coloration system that delivers authentic black denim effects with huge resource savings.

> The 14th Bangladesh Denim Expo will take place from May 16 to 17, 2023 at the International Convention Center (ICCB) in Dhaka. You are invited to visit the team in person at Hall 4, Booth 57.

> * Below limits of detection according to industry standard test methods

> > Source : Chemical Market



DKSH Equips Six Community Schools in India with New Stem Labs

DKSH has partnered with CRY, an Indian non-governmental organization (NGO), to provide six community schools in the local regions of Pune and Wardha, Maharashtra in India with new labs for Science, Technology, Engineering, and Mathematics (STEM) subjects.



Mumbai, India, May 10, 2023 – DKSH India has started a collaboration with CRY to ensure children get hands-on learning experiences through STEM labs. The partnership aims to develop the aptitude of children studying in grades six to nine toward science, eradicate the fear of learning, and set them up for a successful future.

The STEM lab project includes 80 models, 80 user placards, 40 colorful back-

grounds, one safety placard, and one teacher's manual to creating a platform for using the models along with an electrical connection. DKSH



partnered with CRY to provide STEM

education to children as lifelong skills that will allow students to generate ideas, weigh decisions intelligently, and understand better how things relate.

Ms. Kreeanne Rabadi, Director-West, CRY, commented: "We are very grateful to DKSH for partnering with us to bring STEM labs to government schools in Pune. The introduction to science, innovation, and technology in these

labs offers marginalized children the opportunity for hands-on, experiential learning, expanding their horizons, and letting them explore their interests while acquiring crucial skills. Most importantly it motivates children to stay in school."

Vishal Jawale, Managing Director, DKSH India, stated: "We are very pleased to have collaborated

with



their educational path but also in life. This community

project

focused on improving life skills is in line with our overall sustainability strategy and the specific objective

pler way and give them the

skills and knowledge they

need to not only succeed on



of making a positive local impact in the communities where we operate."

Source : Chemical Market

CRY on this important project. Our STEM lab kits will help teach science and math to school children in a sim-







- Peracetic acid formula combats pathogens in water in recirculating aquaculture systems, ponds, egg hatcheries
- U.S. Environmental Protection Agency (EPA) registers use in presence of fish
- VIGOROX® Trident breaks down after use into water, oxygen, and acetic acid

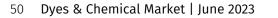
Piscataway, New Jersey. Evonik has received registration from the U.S. Environmental Protection Agency (EPA) for its VIGOROX[®] Trident peracetic acid for use in recirculating aquaculture systems (RAS) and ponds. Produced by Evonik's Active Oxygens business line, the biocide can reduce fish pathogens (bacteria and viruses) in the water. In fact, VIGOROX[®] Trident can be applied while fish are present, as it breaks down into only water, oxygen, and acetic acid.

RAS is a land-based form of aquaculture that enables high- density fish farming while minimizing impact on the surrounding environment and avoiding depletion of natural marine and freshwater resources. Maintaining water quality is one of the greatest challenges in a recirculating system. With VIGOROX[®] Trident, the biocide can be dosed directly in the tank — without the need for time-consuming fish or water removal. VIGOROX[®] Trident has no-observable effect on salmon and similar fin fish in concentrations below 3.5 mg/L. And because peracetic acid breaks down into nothing more than water, oxygen, and acetic acid, there are no additional steps to clean up chemical residues.

"Evonik has been pioneering this new technology in close collaboration with authorities and research facilities. We are very pleased to be able to offer our customers an effective treatment to reduce waterborne fish pathogens that can be used with fish present," said Philip Block, Technology Director for Specialty Markets at Evonik Active Oxygens in North America. "Keeping water clean is an important first step in pathogen management — which is a big concern to operators of RAS systems."

"We work closely with regulators to ensure that our products are effective when used as directed," said LuAnn Maloney, Regulatory Manager for Evonik Active Oxygens in North America. "The new EPA registration for VIG-OROX" Trident attests to our commitment to offering our customers effective solutions that help them meet compliance standards."

Source : Evonik







Solvay opens new application development laboratory in China

Solvay, a global market leader in specialty materials, has officially opened another application development lab (ADL) in Shanghai to expand the global footprint of its research and innovation capabilities. Major local and global end markets expected to benefit from Solvay's Shanghai based Application Development Lab will be automotive, new energy, life solutions and pharmacy, smart devices and semiconductors.

With a team of some 30 highly qualified and experienced scientists, engineers and technicians, the Shanghai ADL will be fully equipped to advance custom-tailored application developments using state-of-the-art Solvay technologies. An Innovation Workshop will coordinate the resources to accelerate the implementation of local solutions through world class simulation, prototyping and performance evaluation services, complemented by various dedicated process equipment, such as for 3D printing, extrusion and noise-vibration-harshness (NHV) improvements.

The opening ceremony of the new lab on May 12th was attended by Solvay's Chief Technology Officer Nicolas Cudré-Mauroux, Andrew Lau, Senior Executive Vice President of the company's Materials global business unit and Francesco Triulzi, Head of Application Development Labs, Solvay Materials.

"There is a growing demand for new application development in various Chinese key industries such as automotive, life sciences and electronics," commented Andrew Lau. "Our new ADL addresses this trend with a significant investment aimed at responding to local market needs faster and with greater proximity to customers than ever, providing tailored high-performance material solutions."

"The new ADL will follow a triple strategy focusing on local-for-local, global-for-local and local-for-global innovation," explained Nicolas Cudré-Mauroux. "Unique facilities to support these efforts include a semiconductors clean room environment enabling high-purity and high-temperature testing, separation capabilities for hemodialysis and water filtration applications, and a functional and industrial coatings facility."

Source : Solvay







Celgard Takes Another Step in Energy Storage Growth as It Forms Strategic Alliance with Lithion Battery for Next-generation Battery Cells

CHARLOTTE, N.C., June 7, 2023 /PRNewswire/ -- Celgard, LLC (Celgard), a subsidiary of Polypore International, LP (Polypore), is pleased to announce a newly formed strategic alliance with Lithion Battery, Inc. (Lithion), whereby the two companies will undertake joint development of battery separators for next generation lithium-ion cells with Lithium Iron Phosphate (LFP) cathode material. Through this collaborative effort, the companies will meet the ever-growing demand of supplying consistent power to those in need with energy storage systems (ESS) for uses such as micro-grid power applications. The cells could also be deployed in medical tools and military and industrial markets, where Celgard has been providing separator solutions for decades.

Through the agreement, Celgard will provide 100% of a long-term supply of lithium-ion battery separators to Lithion for use in their factories in Henderson, Nevada as well as their future 7GWh Gigafactory to be commissioned by 2026, primarily for ESS applications. Celgard will have the first opportunity to supply next-generation battery separator solutions to Lithion for all new battery developments.

Stefan Reinartz, Celgard's vice president of lithium-ion electric drive vehicle (EDV) and energy storage systems (ESS) business, said: "We look forward to further advancing Celgard[®] dry-process battery separator technology alongside Lithion with the end goal of providing safe and reliable solutions for ESS."

Celgard's parent company, Asahi Kasei, may also support Lithion's cell manufacturing requirements and will explore opportunities to leverage its diversified international manufacturing base to support the global LFP supply chain needs for plastics and thermal retardant materials.

Source : PRNewswire





A Huntingdon-based technical expert that has contributed to the recent Nuclear Fusion Breakthrough and Covid-19 vaccine development has been named as one of the leading manufacturing professionals in the UK.

Goodfellow Cambridge's Dr Aphrodite Tomou was named as an Exemplar in The Manufacturer's Top 100 earlier this week at a high-profile event in Birmingham that celebrated the most inspirational figures in industry.

In front of over 200 people from all areas of engineering and manufacturing, the Head of Technical was praised by judges for the way she has introduced several specialist metals and materials to the company's range that help solve production bottlenecks, bring innovative products to the end user, and make the impossible happen.

Working with her global technical team, she has contributed to the company delivering 20% year-on-year growth, sales of £23m and an ambitious recruitment drive for 25 highly skilled people.

"I'm still trying to get my head around the fact that I'm not only in The Top 100 manufacturing professionals in the UK but have actually been singled out as an Exemplar – only 20 people achieved this prestigious title," explained Dr Aphrodite Tomou, who has also had numerous white papers published on emerging 2D materials, composites, and nanoparticles.

"This award is really for everyone in my technical team. They continue to amaze me every day for the way they push the boundaries of materials and metals, continually listening to our global customer base and developing solutions that can achieve world firsts." INDUSTRY FALLS IN LOVE AS MATERIALS EXPERT APHRODITE IS NAMED IN MANUFAC-TURINGS TOP 100



She continued: "What was really pleasing was seeing how many female manufacturing professionals were selected, showcasing the depth of talent we have in UK industry. Hopefully, it will inspire the next generation of women to choose a ca-

reer in engineering and manufacturing."

Goodfellow Cambridge Ltd is a leading global supplier of metals, alloys, ceramics, glasses, polymers, compounds, composites, and other materials to meet the research, development and specialist production requirements of science and industry.

The company has an extensive range of 150,000 catalogue products in multiple forms available off the shelf, most subject to free delivery within 48 hours and with no minimum order quantities.

It also offers a comprehensive range of bespoke processing services, effectively operating as an extension of a customer's production team to develop custom-fabricated components in any quantity required

Source : Chemical Market





LG Chem Collaborates with COSMAX to Develop Eco-Friendly cosmetic containers.

- On the 9th, LG Chem and COS-. MAX signed an MOU for the development and marketing of cosmetic containers based on eco-friendly materials.
- Kim Sangmin (Senior Vice President / Head of Business Unit, ABS **Business Unit**)

"Through our collaboration with COSMAX, the world's leading cosmetics ODM company that actively takes the lead in ESG management, we will actively support the development of eco-friendly materials for our customers and contribute to strengthening the resource circulation system in the cosmetics market."

LG Chem produces cosmetic containers from recycled plastic to deliver real eco-friendly values to customers.

n the 9th, LG Chem announced that it has entered into an MOU with COSMAX at LG Twin Towers in Yeouido to collaborate on the joint development of cosmetic containers using eco-friendly materials and conduct joint marketing targeting global cosmetic companies.

COSMAX is the world's leading Orig-

inal Design Manufacturer (ODM) for cosmetics, providing product development and manufacturing services to over 1,000 global customers, including L'Oréal.

Both LG Chem and COSMAX, as leading companies in the fields of chemicals and cosmetics, anticipate that this agreement will be an opportunity to promote K-Beauty using eco-friendly materials to global customers.

Starting with the supply of recycled plastic *PCR ABS, LG Chem plans to propose various eco-friendly materials to COSMAX and collaborate with them in the entire process from the development of cosmetic containers to its marketing.

*PCR(Post-Consumer Recycled) ABS (Acrylonitrile Butadiene Styrene) : Recycled high-value synthetic resin

For PCR ABS, LG Chem plans to supply eco-friendly materials with differentiated technology, such as transparent products considering aesthetics, as well as antibacterial products with a focus on safety and health. It also plans to expand its supply to materials using pyrolysis oil (chemical recycling) and bio-based raw materials.

The cosmetics industry has a fast consumption and replacement cycle of products, and a significant amount of plastic is used and discarded. Therefore, switching to containers using eco-friendly recycled plastic materials is essential.

Due to the recent strengthening of eco-friendly regulations such as the introduction of carbon border taxes in the EU, many global cosmetic companies have announced their commitment to attaching carbon footprints to their products and expanding the use of recycled plastic by 2030.

* Carbon Footprint: An indicator that represents the total amount of greenhouse gases (carbon dioxide) emitted during the production and consumption process of a product.

Kim Sangmin (Senior Vice President / Head of Business Unit, ABS Business Unit) stated, "Through our collaboration with COSMAX, the world's leading cosmetics ODM company that actively takes the lead in ESG management, we will actively support the development of eco-friendly materials for our customers and contribute to strengthening the resource circulation system in the cosmetics market."

Source : LG Chem

SCTI and Together for Sustainability (TfS) to collaborate in driving transformational change for the textile and leather industries

Cingapore, June 7, 2023 - Sustainable Chemistry for the Textile Industry (SCTI[™]) and Together for Sustainability (TfS) are teaming up to support and accelerate the leather and textile industry's sustainability journey through sustainable chemistry. Together they will collaborate in driving convergence in standards and methodologies and inspire industry action for a better future.

SCTI is an alliance of leading chemical









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3 CIPI TBD Mumbai, India		CIPI	TBD	Mumbai, India			
4 <u>Chemspec Europe</u> May 24-25, 2023 Messe Basel, Switzerland	4	Chemspec Europe	May 24-25, 2023	Messe Basel, Switzerland			
5 <u>ChemUK Expo</u> May 10-11, 2023 NEC, Birmingham, UK		ChemUK Expo	May 10-11, 2023	NEC, Birmingham, UK			
6 American Coatings Show April 30-2 May 2024 Indianapolis			, ,	, , ,			
7 China Coat China Dec 2024 China Import and Export Fair Complex, Guangzhou		China Coat China	Dec 2024				
8 Interdye China TBD China	8	Interdye China	TBD				
9 Paint Expo Germany Apr 09-12, 2024 Messe Karlsruhe Germany		Paint Expo Germany	Apr 09-12, 2024	Messe Karlsruhe Germany			
10 India Chem 2023 TBD Pragati Maidan, New Delhi	10	India Chem 2023	TBD	Pragati Maidan, New Delhi			
11 9th Annual Sales & Marketing Effectiveness in Chemicals Summit Sep 26- 27, 2023 Cologne, Germany		9th Annual Sales & Marketing Effectiveness	Sep 26- 27, 2023				
12 Inacoating 2023 Aug 23-25, 2023 JIExpo Kemayoran, Jakarta - Indonesia	12		Aug 23-25, 2023	JIExpo Kemayoran, Jakarta - Indonesia			



EVENTS AND CONFERENCES

CPHI CHINA - VIRTUAL CPHI

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

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

EXPO PAINT & COATINGS

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

Description: Expo Paint & Coatings - 2023 is a comprehensive Paint & Coatings Exhibition providing platform to the needs of every facade of the coating industry right from raw materials, formulation, application, technology, finishing, quality assurance, recycling and disposal. The Exhibition will feature a wide range display of products, Raw Materials, Application systems, Machines, Tools, current trends, development & innovations shaping future of coating industry.

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

MIDDLE EAST COATINGS SHOW

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

Description: With 13 successful editions in Cairo, Middle East Coatings Show Egypt has established itself as the only dedicated event for connecting the coatings industry in Egypt. For three days, the trade exhibition facilitates serious business and networking opportunities for the coatings community. The event creates the perfect environment for manufacturers, raw materials suppliers, distributors, buyers and technical specialists like formulators from the coatings industry to meet face-to-face and do business. That's not all, the event offers the opportunity to gather insight on the latest processes, exchange ideas with industry leaders and build a strong network in the region. It's true, the U.S. alone accounts for 40% of the world's pharmaceutical sales and is home to 6 of the top 11 companies. But much more than that, this is a place of community-building connections. A forum for thought leadership. The hub of innovation. And it all comes to life at CPHI North America.



EVENTS AND CONFERENCES

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: <u>https://www.cphi.com/korea/en/home.html</u>

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.



companies that strives to empower the textile and leather industries to apply sustainable, state-of-the-art chemistry solutions that protect factory workers, local communities, consumers and the environment.

TfS is a member-driven initiative, raising Corporate Social Responsibility (CSR) standards throughout the chemical industry. TfS members are chemical companies committed to making sustainability improvements within their own – and their suppliers' – operations. TfS has also launched a comprehensive program to foster defossilization of chemical value chains, providing standardization tools to enable effective Scope 3 management based on primary data and launching the TfS Guideline to determine Product Carbon Footprint (PCF). Both TfS and SCTI share the mission to drive transformational change, and intend to collaborate on advancing the industry's sustainability goals, leveraging the TfS Scope 3 greenhouse gas emissions (GHG) program.

"SCTI grew out of a collective belief that sustainable chemistry has a defining role in the textile and leather industry's shift to sustainability. Our new partnership with TfS is an important milestone in this journey. Through TfS's well established programs and tools, SCTI will benefit from some of the best practices, thereby accelerating our sustainability journey. This is the start of an exciting collaboration," Isabella Tonaco, Executive Director, SCTI, said.

"TfS is a firm believer of cross industry collaboration to achieve sustainable transformation. The Textile and Leather industry is a key industry sector making use of chemical raw materials. We share SCTI's ambition and are thrilled to support its efforts in creating Scope 3 transparency and ultimately achieving its sustainability goals," Alessandro Pistillo, Co-Chair of the TfS GHG Scope 3 emissions program, TfS, said.

Source : Press Release

Archroma and COLOURizd™ Collaborate to Make Fashion More Sustainable

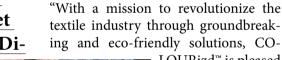
Pratteln, Switzerland, 8 June 2023 - Archroma, a global leader in specialty chemicals towards sustainable solutions, is teaming up with COLOURizd[™], a global innovator specializing in sustainable textile dyeing technologies, to set a new standard for the eco-friendlier production of sustainable textiles.

The new collaboration will enable fabric mills and brands to combine Archroma pigment coloration solutions with the COLOURizd[™] QuantumCOLOUR[™] yarn-coloring technology to produce high-quality, high-performance textiles with maximum consumer appeal and minimal environmental impact.

"Archroma is committed to advancing the fashion and textile industry with sustainable solutions that are safe, efficient and enhanced," Joaquin Femat, Director, Printing Market Segment, Textile Effects Di-

vision, Archroma, said. "As the preferred supplier of pigment coloration solutions for Quantum-COLOUR™

we are proud to join CO-LOURizd[™] in challenging industry conventions to make textile and fashion production better for brands and mills, people



and our planet."



LOURizd[™] is pleased to partner with Archroma to champion clean and simple yarn coloring. We are reimagining textile coloration in partnership with leaders like Archroma because we believe in a future

where fashion is accessible, affordable and sustainable," Jennifer Thompson, Chief Executive Officer at COLOURizd[™], said.

Conventional fiber-reactive methods of dyeing cellulosic and synthetic yarns are multi-step resource-intensive processes



DCM Media Private Limited



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Magazine Advertisement Tariffs (India)

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

Magazine Advertisement Tariffs (International)

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

- Magazine is in full colour and only available on Web / Email / WhatsApp / Online more only.

- All Payments to be done online via NEFT/PAYTM or DCM Media generated RAZORPAY link only.

- To avail GST credit, please send us your GST Number and State of GST Registration.

- Tax invoice will be delivered via email only after 100% payment is realized. Payment receipt will be issued on Partial Payments made. All Payments via NEFT should go to the following :

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

Thank you for your business!

Last Modified: April 2022



Chemicals name	Exchange rate-\$1= 82.39 INR	
	Current Prices	Туре
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
lso 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
РТА	800	CFR India
Propylene	765	CIF India

Mum	Mumbai Market Price as on 14/06/2023				
Name of Chemical	Packing type	Units	Current Price	Exclusive of	
	Imported Repack	Rs/Kg	45	GST	
Acetic Acid	Domestic Intact	Rs/Kg	54	GST	
	Domestic Repack	Rs/Kg	46	GST	
	Imported Intact	Rs/Kg	NA	GST	
A set an a	Imported Repack	Rs/Kg	87	GST	
Acetone	Domestic Intact	Rs/Kg	97	GST	
	Domestic Repack	Rs/Kg	87	GST	



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Domestic IntactRs/Kg119GSTDomestic RepackRs/Kg112GSTImported RepackRs/Kg139GSTImported RepackRs/Kg118GSTDomestic IntactRs/Kg145GSTDomestic RepackRs/Kg136GSTC9 Solvent (99.99% purity)Imported RepackRs/Kg96GSTC9 Solvent (Arham Petrochem)Imported RepackRs/Kg95.75GSTDibutyl PhthalateDomestic IntactRs/Kg130GSTDioctyl PhthalateImported IntactRs/Kg130GSTDomestic IntactRs/Kg130GSTGSTDomestic IntactRs/Kg130GSTGSTDioctyl PhthalateDomestic IntactRs/Kg130GSTDomestic IntactRs/Kg130GSTGSTDomestic IntactRs/Kg130GSTGSTPormaldehyde(37%)Domestic RepackRs/Kg18.5GSTMethanolImported RepackRs/Kg115GSTMethyl Isobutyl KetoneImported RepackRs/Kg110GSTMethyl Isobutyl KetoneImported RepackRs/Kg146GSTMethyl MethacrylateImported RepackRs/Kg146GSTMethyl MethacrylateImported RepackRs/Kg93GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GivcolImported RepackRs/Kg53GST <td>Cycloboxano</td> <td>Imported Repack</td> <td>Rs/Kg</td> <td>NA</td> <td>GST</td>	Cycloboxano	Imported Repack	Rs/Kg	NA	GST
CyclohexanoneImported IntactRs/Kg139GSTImported RepackRs/Kg118GSTDomestic IntactRs/Kg145GSTDomestic IntactRs/Kg136GSTC9 Solvent (99.99% purity)Imported RepackRs/Kg96GSTC9 Solvent (Arham Petrochem)Imported RepackRs/Kg95.75GSTDibutyl PhthalateDomestic IntactRs/Kg126GSTDioctyl PhthalateImported IntactRs/Kg130GSTDomestic IntactRs/Kg130GSTGSTDomestic IntactRs/Kg130GSTGSTDomestic IntactRs/Kg130GSTGSTDomestic IntactRs/Kg130GSTGSTDomestic IntactRs/Kg130GSTGSTDomestic RepackRs/Kg130GSTGSTDomestic RepackRs/Kg19GSTGSTDomestic RepackRs/Kg19GSTGSTMethanolImported RepackRs/Kg115GSTMethyl Ethyl KetoneImported RepackRs/Kg101GSTMethyl Isobutyl KetoneImported IntactRs/KgNAGSTMethyl MethacrylateImported RepackRs/KgNAGSTMixed XyleneImported RepackRs/Kg93GSTDomestic RepackRs/Kg93GSTImported RepackRs/KgMixed XyleneImported RepackRs/Kg58 <t< td=""><td>Cyclonexane</td><td>Domestic Intact</td><td>Rs/Kg</td><td>119</td><td>GST</td></t<>	Cyclonexane	Domestic Intact	Rs/Kg	119	GST
CyclohexanoneImported RepackRs/Kg118GSTDomestic IntactRs/Kg145GSTDomestic RepackRs/Kg136GSTC9 Solvent (99.99% purity)Imported RepackRs/Kg96GSTC9 Solvent (Arham Petrochem)Imported RepackRs/Kg95.75GSTDibutyl PhthalateDomestic IntactRs/Kg130GSTDioctyl PhthalateImported IntactRs/Kg130GSTDioctyl PhthalateDomestic IntactRs/Kg130GSTDioctyl PhthalateDomestic IntactRs/Kg88GSTDomestic IntactRs/Kg130GSTGSTDomestic RepackRs/Kg130GSTGSTPormaldehyde(37%)Domestic RepackRs/Kg19GSTMethanolImported RepackRs/Kg115GSTMethyl Ethyl KetoneImported RepackRs/Kg101GSTMethyl Isobutyl KetoneImported RepackRs/Kg101GSTMethyl MethacrylateImported RepackRs/Kg170GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GiycolImported RepackRs/Kg93GSTMonoethylene GiycolImported RepackRs/Kg53GST		Domestic Repack	Rs/Kg	112	GST
CyclohexanoneDomestic IntactRs/Kg145GSTDomestic RepackRs/Kg136GSTC9 Solvent (99.99% purity)Imported RepackRs/Kg96GSTC9 Solvent (Arham Petrochem)Imported RepackRs/Kg95.75GSTDibutyl PhthalateDomestic IntactRs/Kg126GSTDioctyl PhthalateImported IntactRs/Kg130GSTDioctyl PhthalateDomestic IntactRs/Kg130GSTDioctyl PhthalateDomestic IntactRs/Kg88GSTDomestic IntactRs/Kg130GSTDomestic IntactRs/KgPormaldehyde(37%)Domestic RepackRs/Kg19GSTMethanolImported RepackRs/Kg115GSTMethyl Ethyl KetoneImported IntactRs/Kg101GSTMethyl Isobutyl KetoneImported RepackRs/Kg170GSTMethyl MethacrylateImported RepackRs/Kg145GSTMixed XyleneImported RepackRs/Kg93GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GiycolImported RepackRs/Kg97GSTImported RepackRs/Kg97GSTGSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GiycolImported RepackRs/Kg53GSTMonoethylene GiycolImported RepackRs/Kg53GST		Imported Intact	Rs/Kg	139	GST
Domestic IntactRs/Kg145GSTDomestic RepackRs/Kg136GSTC9 Solvent (99.99% purity)Imported RepackRs/Kg96GSTC9 Solvent (Arham Petrochem)Imported RepackRs/Kg95.75GSTDibutyl PhthalateDomestic IntactRs/Kg126GSTDioctyl PhthalateImported IntactRs/Kg130GSTDioctyl PhthalateDomestic IntactRs/Kg130GSTDomestic IntactRs/Kg130GSTDomestic IntactRs/Kg88GSTFormaldehyde(37%)Domestic IntactRs/Kg19GSTGSTMethanolImported RepackRs/Kg115GSTMethyl Ethyl KetoneImported IntactRs/Kg115GSTMethyl Isobutyl KetoneImported IntactRs/Kg101GSTMethyl MethacrylateImported IntactRs/Kg170GSTMixed XyleneImported RepackRs/Kg146GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GlycolImported RepackRs/Kg53GST		Imported Repack	Rs/Kg	118	GST
C9 Solvent (99.99% purity)Imported RepackRs/Kg96GSTC9 Solvent (Arham Petrochem)Imported RepackRs/Kg95.75GSTDibutyl PhthalateDomestic IntactRs/Kg126GSTDioctyl PhthalateImported IntactRs/KgNAGSTDioctyl PhthalateDomestic IntactRs/Kg130GSTEthyl AcetateDomestic IntactRs/Kg88GSTDomestic IntactRs/Kg86GSTDomestic IntactRs/Kg19GSTFormaldehyde(37%)Domestic RepackRs/Kg18.5GSTMethanolImported RepackRs/Kg115GSTMethyl Ethyl KetoneImported IntactRs/Kg101GSTMethyl Isobutyl KetoneImported RepackRs/Kg101GSTMethyl MethacrylateImported RepackRs/Kg170GSTMixed XyleneImported RepackRs/Kg93GSTMonpethylene GivcolImported RepackRs/Kg93GSTImported RepackRs/Kg97GSTGSTImported RepackRs/Kg97GSTGSTMixed XyleneImported RepackRs/Kg58GSTImported RepackRs/Kg58GSTGSTImported RepackRs/Kg58GSTGSTMixed XyleneImported RepackRs/Kg58GSTImported IntactRs/Kg58GSTGSTDomestic RepackRs	Cyclonexanone	Domestic Intact	Rs/Kg	145	GST
C9 Solvent (Arham Petrochem)Imported RepackRs/Kg95.75GSTDibutyl PhthalateDomestic IntactRs/Kg126GSTDioctyl PhthalateImported IntactRs/KgNAGSTDonestic IntactRs/Kg130GSTDomestic IntactRs/Kg88GSTDomestic IntactRs/Kg886GSTDomestic IntactRs/Kg866GSTDomestic RepackRs/Kg19GSTPormaldehyde(37%)Domestic RepackRs/Kg18.5GSTMethanolImported RepackRs/Kg115GSTMethyl Ethyl KetoneImported IntactRs/Kg101GSTImported IntactRs/Kg101GSTGSTMethyl Isobutyl KetoneImported RepackRs/Kg101GSTMethyl MethacrylateImported RepackRs/Kg146GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GivcolImported RepackRs/Kg97GSTImported RepackRs/Kg58GSTGSTImported RepackRs/Kg97GSTGSTImported RepackRs/Kg58GSTGSTMixed XyleneImported RepackRs/Kg58GSTImported RepackRs/Kg58GSTGSTImported RepackRs/Kg58GSTGSTImported RepackRs/Kg58GSTGSTImported RepackRs/Kg <td>Γ</td> <td>Domestic Repack</td> <td>Rs/Kg</td> <td>136</td> <td>GST</td>	Γ	Domestic Repack	Rs/Kg	136	GST
Dibutyl PhthalateDomestic IntactRs/Kg126GSTDioctyl PhthalateImported IntactRs/KgNAGSTDioctyl PhthalateDomestic IntactRs/Kg130GSTEthyl AcetateDomestic IntactRs/Kg88GSTDomestic RepackRs/Kg86GSTFormaldehyde(37%)Domestic IntactRs/Kg19GSTMethanolImported RepackRs/Kg18.5GSTMethyl Ethyl KetoneImported IntactRs/Kg115GSTMethyl Isobutyl KetoneImported RepackRs/Kg101GSTMethyl MethacrylateImported IntactRs/Kg170GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GlycolImported RepackRs/Kg93GSTMonoethylene GlycolImported RepackRs/Kg53GST	C9 Solvent (99.99% purity)	Imported Repack	Rs/Kg	96	GST
Dioctyl PhthalateImported IntactRs/KgNAGSTDomestic IntactRs/Kg130GSTEthyl AcetateDomestic IntactRs/Kg88GSTDomestic RepackRs/Kg86GSTPormaldehyde(37%)Domestic RepackRs/Kg19GSTMethanolImported RepackRs/Kg18.5GSTMethanolImported RepackRs/Kg115GSTMethyl Ethyl KetoneImported IntactRs/Kg101GSTMethyl Isobutyl KetoneImported RepackRs/Kg101GSTMethyl MethacrylateImported RepackRs/Kg170GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GlycolImported RepackRs/Kg97GSTMonoethylene GlycolImported IntactRs/Kg53GST	C9 Solvent (Arham Petrochem)	Imported Repack	Rs/Kg	95.75	GST
Dioctyl PhthalateDomestic IntactRs/Kg130GSTEthyl AcetateDomestic IntactRs/Kg88GSTDomestic RepackRs/Kg86GSTFormaldehyde(37%)Domestic IntactRs/Kg19GSTMethanolImported RepackRs/Kg18.5GSTMethyl Ethyl KetoneImported IntactRs/Kg115GSTMethyl Isobutyl KetoneImported RepackRs/Kg101GSTMethyl Isobutyl KetoneImported RepackRs/Kg170GSTMethyl MethacrylateImported IntactRs/Kg170GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GlycolImported RepackRs/Kg53GST	Dibutyl Phthalate	Domestic Intact	Rs/Kg	126	GST
Dioctyl PhthalateDomestic IntactRs/Kg130GSTEthyl AcetateDomestic IntactRs/Kg88GSTDomestic RepackRs/Kg86GSTFormaldehyde(37%)Domestic IntactRs/Kg19GSTMethanolImported RepackRs/Kg18.5GSTMethyl Ethyl KetoneImported IntactRs/Kg115GSTMethyl Isobutyl KetoneImported RepackRs/Kg101GSTMethyl Isobutyl KetoneImported RepackRs/Kg170GSTMethyl MethacrylateImported IntactRs/Kg170GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GlycolImported RepackRs/Kg53GST		Imported Intact	Rs/Kg	NA	GST
Ethyl AcetateDomestic RepackRs/Kg86GSTFormaldehyde(37%)Domestic IntactRs/Kg19GSTDomestic RepackRs/Kg18.5GSTMethanolImported RepackRs/Litre31GSTMethyl Ethyl KetoneImported IntactRs/Kg101GSTImported RepackRs/Kg101GSTGSTMethyl Isobutyl KetoneImported RepackRs/Kg101GSTMethyl Isobutyl KetoneImported RepackRs/Kg170GSTMethyl MethacrylateImported IntactRs/Kg146GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GivcolImported IntactRs/Kg58GSTMonoethylene GivcolImported RepackRs/Kg53GST	Dioctyl Phthalate	Domestic Intact	Rs/Kg	130	GST
Ethyl AcetateDomestic RepackRs/Kg86GSTPormaldehyde(37%)Domestic IntactRs/Kg19GSTDomestic RepackRs/Kg18.5GSTMethanolImported RepackRs/Litre31GSTMethyl Ethyl KetoneImported IntactRs/Kg101GSTImported IntactRs/Kg101GSTGSTMethyl Isobutyl KetoneImported RepackRs/Kg101GSTMethyl Isobutyl KetoneImported RepackRs/Kg170GSTMethyl MethacrylateImported IntactRs/KgNAGSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GivcolImported IntactRs/Kg58GSTMonoethylene GivcolImported RepackRs/Kg53GST		Domestic Intact	Rs/Kg	88	GST
Formaldehyde(37%)Domestic IntactRs/Kg19GSTDomestic RepackRs/Kg18.5GSTMethanolImported RepackRs/Litre31GSTMethyl Ethyl KetoneImported IntactRs/Kg115GSTImported IntactRs/Kg101GSTMethyl Isobutyl KetoneImported IntactRs/Kg205GSTMethyl Isobutyl KetoneImported RepackRs/Kg170GSTDomestic RepackRs/Kg170GSTDomestic RepackRs/Kg146Methyl MethacrylateImported IntactRs/Kg146GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GlycolImported IntactRs/Kg53GST	Ethyl Acetate	Domestic Repack		86	GST
Formaldehyde(37%)Domestic RepackRs/Kg18.5GSTMethanolImported RepackRs/Litre31GSTMethyl Ethyl KetoneImported IntactRs/Kg115GSTImported IntactRs/Kg101GSTImported IntactRs/Kg101GSTMethyl Isobutyl KetoneImported IntactRs/Kg205GSTMethyl Isobutyl KetoneImported RepackRs/Kg170GSTDomestic RepackRs/Kg170GSTDomestic RepackRs/KgNAMethyl MethacrylateImported IntactRs/Kg146GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GlycolImported IntactRs/Kg58GST		Domestic Intact		19	GST
Methyl Ethyl KetoneImported IntactRs/Kg115GSTImported RepackRs/Kg101GSTImported IntactRs/Kg205GSTMethyl Isobutyl KetoneImported IntactRs/Kg170GSTDomestic RepackRs/Kg170GSTMethyl MethacrylateImported IntactRs/Kg146GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GlycolImported IntactRs/Kg53GST	Formaldehyde(37%)	Domestic Repack	Rs/Kg	18.5	GST
Methyl Ethyl KetoneImported RepackRs/Kg101GSTImported IntactRs/Kg205GSTMethyl Isobutyl KetoneImported RepackRs/Kg170GSTDomestic RepackRs/KgNAGSTMethyl MethacrylateImported IntactRs/Kg146GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GlycolImported IntactRs/Kg53GST	Methanol	Imported Repack	Rs/Litre	31	GST
Methyl Isobutyl KetoneImported RepackRs/Kg101GSTMethyl Isobutyl KetoneImported IntactRs/Kg205GSTDomestic RepackRs/Kg170GSTDomestic RepackRs/KgNAGSTMethyl MethacrylateImported IntactRs/Kg146GSTMixed XyleneImported RepackRs/Kg93GSTMonoethylene GlycolImported IntactRs/Kg53GST		Imported Intact	Rs/Kg	115	GST
Methyl Isobutyl KetoneImported IntactRs/Kg205GSTImported RepackRs/Kg170GSTDomestic RepackRs/KgNAGSTMethyl MethacrylateImported IntactRs/Kg146GSTMixed XyleneImported RepackRs/Kg93GSTDomestic RepackRs/Kg97GSTImported IntactRs/Kg58GSTImported RepackRs/Kg53GSTImported RepackRs/Kg53GST	Methyl Ethyl Ketone	Imported Repack		101	GST
Methyl Isobutyl KetoneImported RepackRs/Kg170GSTDomestic RepackRs/KgNAGSTMethyl MethacrylateImported IntactRs/Kg146GSTImported RepackRs/KgNAGSTMixed XyleneImported RepackRs/Kg93GSTDomestic RepackRs/Kg97GSTImported IntactRs/Kg58GSTImported RepackRs/Kg53GST		Imported Intact	-ii	205	GST
Domestic RepackRs/KgNAGSTMethyl MethacrylateImported IntactRs/Kg146GSTImported RepackRs/KgNAGSTMixed XyleneImported RepackRs/Kg93GSTDomestic RepackRs/Kg97GSTImported IntactRs/Kg58GSTImported IntactRs/Kg53GST	Methyl Isobutyl Ketone	· · · · · · · · · · · · · · · · · · ·		170	GST
Methyl MethacrylateImported IntactRs/Kg146GSTImported RepackRs/KgNAGSTMixed XyleneImported RepackRs/Kg93GSTDomestic RepackRs/Kg97GSTImported IntactRs/Kg58GSTImported RepackRs/Kg53GST				NA	GST
Methyl Methacrylate Imported Repack Rs/Kg NA GST Mixed Xylene Imported Repack Rs/Kg 93 GST Domestic Repack Rs/Kg 97 GST Imported Intact Rs/Kg 58 GST Monoethylene Glycol Imported Repack Rs/Kg 53 GST		•		146	GST
Mixed Xylene Imported Repack Rs/Kg 93 GST Domestic Repack Rs/Kg 97 GST Imported Intact Rs/Kg 58 GST Imported Repack Rs/Kg 53 GST	Methyl Methacrylate	· · · · · · · · · · · · · · · · · · ·			
Mixed Xylene Domestic Repack Rs/Kg 97 GST Imported Intact Rs/Kg 58 GST Imported Repack Rs/Kg 53 GST	1				
Imported Intact Rs/Kg 58 GST Monoethylene Glycol Imported Repack Rs/Kg 53 GST	Mixed Xylene				
Monoethylene Glycol Imported Repack Rs/Kg 53 GST		•			
Monoethylene Glycol	F				
	Monoethylene Glycol	Domestic Intact	Rs/Kg	58	GST
Domestic Repack Rs/Kg 53 GST	F				



Iso propyl Alcohol	Imported Intact	Rs/Kg	NA	GST
	Imported Repack	Rs/Kg	99	GST
	Domestic Intact	Rs/Kg	110	GST
	Domestic Repack	Rs/Kg	100	GST
nButanol	Imported Intact	Rs/Kg	97	GST
	Imported Repack	Rs/Kg	93	GST
	Domestic Intact	Rs/Kg	99	GST
	Domestic Repack	Rs/Kg	93.5	GST
Ortho Xylene	Imported Repack	Rs/Kg	110	GST
Phenol	Imported Intact	Rs/Kg	NA	GST
	Imported Repack	Rs/Kg	105	GST
	Domestic Intact	Rs/Kg	115	GST
	Domestic Repack	Rs/Kg	106	GST
Phthalic Anhydride	Imported Intact	Rs/Kg	113	GST
	Domestic Intact	Rs/Kg	115	GST
Purified Terethaic Acid	Domestic Intact	Rs/Kg	NA	GST
Styrene Monomer	Imported Repack	Rs/Kg	98	GST
Toluene	Imported Repack	Rs/Kg	90	GST
	Domestic Repack	Rs/Kg	90	GST
Vinyl Acetate Monomer	Imported Repack	Rs/Kg	83	GST
Note-Above prices have been colle rom your end as well.	ected from experts and expe	rienced outsour	rces of the industry.	Kindly verify

International market prices as on 14/06/2023						
Products	Regions	Current prices				
Feedstock Prices \$/unit						
	WTI CRUDE	69.43				
	BRENT CRUDE	74.37				
Crude Oil (\$/barrel)	MARS US	69.97				
	OPEC BASKET	72.96				
Natural Gas	New York	2.3				
Gasoline	RBOB	2.54				
Heating Oil	US	2.39				
Ethanol	US	2.44				
	FOB Singapore	550				
Naphtha (\$/mt)	European	545				
	CFR Far East Asia	542				
Propane	New York	0.58				
Aromatics prices \$/MT						
Denzene	FOB Korea	750				
Benzene	CFR Japan	755				



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	CFR Japan	895
	CFR South East Asia	940
Styrene	CFR China	894
	FOB Korea	895
	CFR China	840
	CFR South East Asia	885
Toluene	FOB Korea	835
	CFR Japan	840
	CFR South East Asia	845
lso-mix xylene	CFR Taiwan	880
	FOB Korea	860
	CFR China	460
MEG	CFR South East Asia	465
	CFR China	230
	CFR Korea	300
Methanol	CFR South East Asia	294
E E E E E E E E E E E E E E E E E E E	CFR Taiwan	296
	CFR South East Asia	895
Solvent-MX	FOB Korea	845
	CFR China	870
	CFR South East Asia	1075
Ortho xylene	FOB Korea	1045
Γ	CFR China	1055
	CFR South East Asia	985
Para xylene	FOB Korea	960
	CFR Taiwan	970
	FOB Japan	730
	FOB Korea	705
Propylene	CFR China	720
	CFR South East Asia	775
	FOB Korea	895
	CFR China	920
Propylene Glycol	CFR South East Asia	925
	CFR Taiwan	920
	CFR North East Asia	725
Ethe days	CFR South East Asia	745
Ethylene	FOB Japan	740
	FOB Korea	745
	CFR Far East Asia	290
Ethylene Di Chloride (EDC)	CFR South East Asia	280



	CFR China	675
Butadiene	CFR South East Asia	585
	FOB Korea	625
	Benzene	885
	Methanol	251
	Ortho xylene	1385
FOB Rotterdam USD/MT	Para xylene	1085
	Xylene solvent	1020
	Styrene	920
	Toluene	1035
	Benzene C/G	309
	Toluene C/G	358
	Styrene C/LB	45.3
USA Aromatics prices FOB US Gulf	Para xylene \$/MT	1025
	Mix xylene C/G	358
	Methanol C/G	75
Inte	ermediates prices \$/MT	•
	CFR Far East Asia	1265
Acrylonitrile	CFR South East Asia	1265
	CFR South Asia	1085
-2.0	CFR Far East Asia	330
EDC	CFR South East Asia	360
	CFR Far East Asia	610
VCM	CFR South East Asia	640
	FOB Singapore	943
МТВЕ	FOB US Gulf	893
	CFR China	720
	CFR South East Asia	850
Phenol	FOB US Gulf	1208
F	FOB Rotterdam	1289
	CFR China	625
F	CFR South East Asia	830
Acetone	CFR Far East Asia	685
F	FOB US Gulf	1150
F	FOB Rotterdam	978
	CFR Far East Asia	1610
Caprolactum	CFR South East Asia	1610
	FOB North East Asia	340
Caustic Soda —	CFR South East Asia	385
	CFR Far East Asia	760
РТА	CFR South East Asia	765





	FOB US Gulf	1970
Ethyl acetate	FOB Rotterdam	1032
	FD North West Europe(Euro/mt)	NA
	FOB US Gulf	2340
Butyl acetate	FOB Rotterdam	1512
	FD North West Europe(Euro/mt)	1480
	FOB Rotterdam	1424
MEK	FD North West Europe(Euro/mt)	1400
	FOB US Gulf	1090
IPA	FOB Rotterdam	1150
	FD North West Europe(Euro/mt)	1150
	CFR China	1090
NBA	CFR South East Asia	1110
	CFR Far East Asia	1125
	CFR China	1120
Octanol	CFR South East Asia	1250
	CFR Far East Asia	1165
	CFR China	1240
DOP	CFR South East Asia	1305
	CFR Far East Asia	1255
	CFR China	1040
Phthalic anhydride	CFR South East Asia	1075
	CFR Far East Asia	1075
	CFR Far East Asia	445
Acetic Acid	CFR South Asia	440
	FOB China	365
	CFR China	850
VAM	CFR South East Asia	870
	CFR South Asia	850
	Polymers prices \$/MT	
	CFR Far East Asia	760-780
PVC Suspension	CFR South East Asia	760-800
APS Intection	CFR Far East Asia	1230-1280
ABS Injection	CFR South East Asia	1260-1300

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.



Sh	ipping 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 ship- ping 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 water- ways 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 dam- age of the goods right until the products are delivered to the buyer. The buyer only has to pay the import duties or custom clearance charges.
DDP	Delivery Duty Paid	The seller is responsible for shipping the goods from his factory to the destination address provided by the buyer, usually his factory or warehouse and is also liable for any damage or loss of goods during transit. The seller also takes care of the customs, VAT, or import duties levied on the products. The buyer only has to receive the prod- ucts at the destination. In most cases, most sellers only offer DDP for small shipments.



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	FD North West Eu- rope	Free Delivered	Free Delivered North West Europe				
Philippines, Thailand, and Vietnam.	Countries Groups	of eleven countries: Brunei, Burma (Myanmar), Cambo- dia, Timor-Leste, Indonesia, Laos, Malaysia, the Philip- pines, Singapore, Thailand	countries are considered to be located in the Far East: China, Hong Kong, Macau, Japan, North Korea, South Korea, Mongolia, Siberia, Tai- wan, Brunei, Cambodia, East Timor, Malaysia, Laos, Indo- nesia, Myanmar, Singapore, Philippines,	usually consists of the United Kingdom, the Republic of Ireland, Bel- gium, the Netherlands, Luxembourg, Northern			

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.

Openir	Opening Ports Price (Rs/kg) of Chemicals as on 14/06/2023						
Alphabets	Chemicals Name	Current Prices (INR/kg)	Prices in USD/ mt Equivalent to INR/kg	Location			
	Acetic Acid	36.5	443.45	Ex-Mumbai			
	Acetic Acid	36	437.37	Ex-Kandla			
	Acetonitrile- imported intact	135	1640.14	Bhiwandi			
	Acetone	71.5	868.67	Ex-Mumbai			
А	Acrylic acid	150	1822.38	Ex-Bhiwandi			
A	Acrylonitrile	100	1214.92	Ex- Kandla			
	Adipic acid	130 (140 BASF)	Not Available	Ex-Bhiwandi			
	Aniline oil	148	1798.08	Ex-Kandla			
	ABS Resin	121	1470.05	Ex-Mumbai Market			
	Benzene	76	923.34	Ex-Vizaz			
	Butyl Acetate	92	1117.73	Ex-Kandla			
В	Butyl Acrylate monomer	101	1227.07	Ex-Kandla			
	Butyl Glycol (Butyl Cellosolve)	97	1178.47	Ex-Kandla			
	EDC	29.5	358.40	Ex-Kandla			
E	Epoxy Resin	160	1943.87	Ex-Nhava Sheva			
E	Ethyl Acrylate	150drum, 142tank	Not Available	Ex-port			





	C10	82	996.23	Ex-Kandla
	С9	80	971.94	Ex-Kandla
	Carbon Black- regular grade	65	789.70	Mumbai
	Caustic Soda Lye	33.25	403.96	Ex-Mumbai
	Caustic Soda Flake 50%	NA	Not Available	Ex-Bhiwandi
С	Chloroform	24	291.58	Ex-Dahej
	Citric Acid-ANHYD	75	911.19	Ex-Bhiwandi
	Citric Acid-Mono	67	814.00	Ex-Bhiwandi/Ex- Mumbai
	Cyclohexane	NA (97 RIL Gujrat)	Not Available	Ex-Hazira
	Cyclohexanone	102	1239.22	Ex-Kandla
2	DMF Drum	84 (Intact)	Not Available	Ex-Bhiwandi
D	DEG	62.5	759.32	Ex Hazira
F	Formic Acid	70	850.44	Ex-Bhiwandi
G	Glycerine	57	692.50	CIF Nhava Sheva
	N-Heptane	134	1627.99	Ex-Bhiwandi
	Hexane	69	838.29	Ex-Kandla
Н	Hydrogen Peroxide- 50%	35 (31 NPL, 33 Maghmani)	Not Available	Ex-Bhiwandi
	Isobutanol	80	971.94	Ex-Kandla
I	IsoPropyl Alcohol	86/87	Not Available	Ex-Kandla/Ex- Mumbai
L	LAB	130	1579.39	Imported
	Maleic Anhydride- Drum	NA	Not Available	Ex-Mumbai
	MDC	32.5	394.85	Ex-Dahej
	MEG	46	558.86	Ex-Mumbai
	MEK	87	1056.98	Ex-Kandla
	Meta Para Cresol	NA	Not Available	Ex-Bhilai
	Methanol	22.5/22.8	Not Available	Ex-Kandla/Ex- Mumbai
М	MIBK	150	1822.38	Ex-Kandla
	Mix Xylene-Solvent Grade	82.5	1002.31	Ex-Kandla
	Mix Xylene-Solvent Grade	83	1008.38	Ex-Mumbai
	Mix Xylene-Iso Grade	84	1020.53	Ex-Kandla
	Mix Xylene-Iso Grade	NA	Not Available	Ex-Mumbai
	MMA	138	1676.59	Ex-Kandla



N	N-Butanol	81	984.08	Ex-Kandla/Ex- Mumbai
	N-Propanol	86	1044.83	Ex-Kandla
	Octanol	105	1275.67	Ex-Hazira
0	Ortho Cresol	260	3158.79	Ex-Bhilai
	Ortho Xylene	97	1178.47	Ex-Mumbai
	Phenol	81	984.08	Ex-Kandla/Ex- Mumbai
5	Phenolic Resin	155 (162 Mumbai)	Not Available	Ex-Indore
Р	Phthalic Anhydride	113	1372.86	Ex-Bhiwandi
	Propylene Glycol	128	1555.10	Ex-Kandla
	PVC Resin	75	911.19	Ex-Mumbai Market
	Sodium Nitrate (50Kg Bag)	61	741.10	Ex-Taloja Plant(- Make- Lasons)
S	Soda ash light	NA (39 Kolkata)	Not Available	Ex-Bhiwandi
	Styrene Monomer	85	1032.68	Ex-Kandla
	Styrene Monomer	88	1069.13	Ex-Mumbai
	Sulphuric Acid	5.5 Vapi / 8 kolkata	Not Available	Ex-Vapi
Т	Tio2(Anatase Grade)	190	2308.35	Ex-Bhiwandi
	Tio2(Rutile Grade)	220	2672.82	Ex-Bhiwandi
	Toluene	79	959.79	Ex-Kandla
	Toluene	80	971.94	Ex-Mumbai
V	VAM	73	886.89	Ex-Kandla
V	VAM	74	899.04	Ex-Hazira
Numbers	2,4-2,5 Xylenol	210	2551.33	Ex-Bhilai

Р	Producer Prices (Rs/kg) of Chemicals as on 14/06/2023					
Producers	Chemicals Name	Current Price(Rs/kg)	Import parity price in USD/MT	Production capacity	Location	
	Phenol	83	1008.38	200,000 tonnes/year	Dahej	
Deepak Phe- nolics	Acetone	70.5	856.52	80.5	Dahej	
nones	IPA Bulk	88	1069.13	30,000 tonnes/year	Dahej	
NIRMA	LAB	NA	Not Available	120,000 tonnes/year	Vadodra	



	Toluene	83	1008.38	100,000 tonnes/year	Hazira
	Mix Xylene	83	1008.38	120,000 tonnes/year	Dahej
	MEG	51.6	626.90	750,000 tonnes/year	Jamnagar
	DEG	63	765.40	65,000 tonnes/year	Jamnagar
RIL	TEG	111.7	1357.06	NA	Jamnagar
RIL .	LAB	NA	Not Available	180,000 tonnes/year	120ktpa Patal- ganga, 60ktpa Vadodra
	ΡΤΑ	82	996.23	1,300,000 tonnes/year	Dahej
	MEG	45.5	552.79		Ex- Odis- ha(Paradip
	MEG	47.4	575.87		Ex-Panipat
	Paraffin Wax	NA	Not Available		
	С9	79.75	968.90	69,000 tonnes /year	Kandla
	С9	80.75	981.05	69,000 tonnes /year	Ahmedabad
	C10	82.5	1002.31	30,000 tonnes /year	Kandla
	C10	82	996.23	30,000 tonnes /year	Ahmedabad
Arham Petro-	C10 - Imported Repack	95.75	1163.29	30,000 tonnes /year	Bhiwandi Warehouse
chem Pvt Ltd (Kandla Energy & Chemicals	MTO/White Spirit(kl)	42.5	516.34	75000 tonnes / Year	Kandla
Ltd Refinery)	MTO/White Spirit(kl)	43.5	528.49	35,000 tonnes /year	Ahmedabad
	De-Aromatised D40	130	1579.39	75000 tonnes / Year	Kandla
	De-Aromatised D40	131	1591.54	35,000 tonnes /year	Ahmedabad
	De-Aromatised D60	139	1688.74	75000 tonnes / Year	Kandla
	De-Aromatised D60	140	1700.89	35,000 tonnes /year	Ahmedabad
HOCL	Phenol	103	1251.37	40,000 tonnes/year	Kochi
HUCL	Acetone	86.5	1050.91	24640 tonnes/year	Kochi



	Phenol	103	1251.37	39500	Ratnagiri,
		105	1231.37	tonnes/year	Maharashtra
SI GROUP	Acetone	64	777.55	24000 tonnes/year	Ratnagiri, Ma- harashtra
SIGNOUP	Phthalic Anhy- dride	114	1385.01	11000 tonnes/year	Ratnagiri, Maharashtra
	Benzene	NA	Not Available	NA	NA
	Octanol	104	1263.52	70,000 tonnes/year	Vishakhapat- nam
Andhra Petro- chemicals	N-Butanol	79	959.79	30,000 tonnes/year	Vishakhapat- nam
	Iso-Butanol	83	1008.38	4000 tonnes/year	Vishakhapat- nam
Adipic acid	Ex-Deepak	NA	Not Available		
	Ex-BASF	195	2369.09	210,000 tonnes/year	Germany
TATA Chemi- cals	Soda Ash light	41	498.12	900,000 tonnes/year	Mithapur
GACL	Soda Ash light	NA	Not Available		
	Acetic Acid	37.5	455.59	160,000 tonnes/year	Bharuch
GNFC	TDI Drum	202	2454.14	67000 tonnes/year	Bharuch
	Aniline Oil	148	1798.08		Bharuch
	Grasim	30	364.48	33000 tonnes/year	Nagda, Mad- hya Pradesh
MDC	Meghmani	30	364.48	397500 kg/month	Ankleshwar, Gujarat
	Rayalseema	NA	Not Available	40 tonnes/month	Bharuch, Gu- jarat
	GACL	32.25	391.81	NA	Bharuch, Gu- jarat
	Meghmani	31.75	385.74	400000 tonnes/annum	Bharuch, Gu- jarat
Caustic Soda	GACL	NA	Not Available		
Lye	RIL	NA	Not Available	69500 tonnes/annum	Kurnool Dis- tric, Andhra Pradesh





	Benzene	NA	Not Available	90,000 tonnes/year, Mumbai Refinery,	87000 tonnes/ year,Kochi
	Toluene	81	984.08	16,000 tonnes/year	Kochi Refinery
	Hexane(kl)	83.9	1019.32	35,000 tonnes/year, Kochi	Mumbai Re- finery
	Hexane(MT)	126.3	1534.44	35,000 tonnes/year, Kochi	Mumbai Re- finery
	MTO(kl)	74.5	905.11	19,000 tonnes/year	Mumbai Re- finery
	Paraffin Wax	NA	Not Available		
	Sulphur(Molten)	11.09	134.73	19,000 tonnes/year	Kochi Refinery
	Acrylic Acid (Bulk)	85	1032.68	47000	Kochi Refinery
	Acrylic Acid (Packed)	94	1142.02	tonnes/year	Kochi Refinery
BPCL	2-Ethyl Hexanol (B)	110.1	1337.63	47000 tonnes/year	Kochi Refinery
	2-Ethyl Hexanol (P)	120.6	1465.19		Kochi Refinery
	N-Butanol(B)	83.3	1012.03		Kochi Refinery
	N-Butanol(B)	89.8	1091.00	38000 tonnes/year	Kandla Installation
	N-Butanol(P)	100.3	1218.56		Kochi Refinery
	Iso-Butanol(B)	89	1081.28	7000 toppos /voor	Kochi Refinery
	Iso-Butanol(P)	100	1214.92	7000 tonnes/year	Kochi Refinery
	Butyl Acrylate (B)	103	1251.37	180000	Kochi Refinery
	Butyl Acrylate (B)	103.5	1257.44	tonnes/year	Kandla Installation
	Butyl Acrylate (P)	128	1555.10		
	2-Ethyl Hexyl Acrylate(B)	128	1555.10	10000	Kochi Refinery
	2-Ethyl Hexyl Acrylate(P)	138	1676.59	tonnes/year	Kochi Refinery
	Cyclohexane	98	1190.62	NA	Gujarat
GSFC	Cyclhexanone	NA	Not Available	NA	Gujarat



Ethyl Acetate	GNFC	77	935.49	50000 tonnes/year	Bharuch, Gu- jarat	
	Accord	NA	Not Available			
	Satyam	77	935.49	50 tonnes/day	Nevasa, Maharashtra	
	Bhange	NA	Not Available	400ltr/day	Ahmednagar, Maharashtra	
	Jubilant	77	935.49	280 tonnes/day	Gajraula, U.P	
	Laxmi	77	935.49	100000 tonnes/annum	Mahad, Maharashtra	
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 chan pends on last ch	0 1	hen it changed las	st whether its yest	erday or 2 days ago or 5	days ago or de-	

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T.G UREA / GSFC/GNFC



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

Markets :- Basic Chemicals | Agro Chemicals | Ceramic | Industrial Chemicals | Description: Technical Grade Urea

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



CAS-Number :- 7757-83-7 Molecular Weight :- 126.043 mol/g Package Size :-50 kg bag packing

Molecular Formula :-NA2SO3 Available Qty :- 50.0000 Tonnes Price :- Available on Request

Markets :- Basic Chemicals | Agro Chemicals | Ceramic | Industrial Chemicals | Description : Physical State:- Powder Colorp:- White Density 2.63 g/cm³



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that use up to 95 liters of water per kilograms of colored yarn and discharge approximately 94 liters of effluent.

In contrast, the innovative QuantumC-OLOUR[™] process injects pigment and a binder directly into the yarn, using only 0.95 liters of water per kilograms of colored yarn while producing zero effluent. This represents an unprecedented reduction of 98% in water consumption alongside zero wastewater discharge, zero discharge of harmful chemicals, 73% decrease in carbon footprint and 50% reduction in energy use.*

With Archroma, textile manufacturers and apparel brands can add further value to the QuantumCOLOUR[™] process with tailor-made system solutions, including JUST COLOR. This formaldehyde-free** pigment coloration system is based on Archroma's revolutionary Printofix® pigment dispersions and Helizarin® binders to deliver exceptionally soft fabrics with high fastness and durability, while also enabling energy and chemical savings and higher productivity.

Source : Press Release

Vydyne[®] AVS Receives 2023 Ringier Technology Innovation Award in Plastics Industry

HOUSTON – June 8, 2023 – Ascend Performance Materials' Vydyne[®] AVS has been named a winner at the 2023 Plastics Industry Ringier Technology Innovation Awards. Terry Yuan, Ascend's Asia commercial director, accepted the award at a ceremony held by Ringier in Shanghai on June 7.

"We are honored to be recognized among so many innovators," Mr. Yuan said. "Vydyne AVS, a new engineered material developed by our e-mobility application development engineers and polymer scientists, is effective at damping high-frequency vibrations at the source, while also

providing structural support."

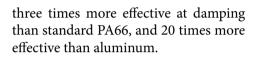
Novel Polyamide Anti-Vibration System Technology

料原材料及添加剂 第一

Specifically designed to damp noise, vibrations and harshness while also providing enough rigidity for structural applications, Vydyne

AVS improves cabin sound and reduces part weight. Vydyne AVS dampens vibrations better than traditional PA66, especially at the higher frequencies of EV motors. And the team at Ascend developed physical validation tests for predictive models.

In third-party testing, Vydyne AVS was



Vydyne AVS is being used in the Ca-

dillac LYRIQ, which has been dubbed "crypt-quiet" and "the quietest car I can remember driving" by the press. The LYRIQ sports an electric AC compressor mounting bracket made with Vydyne AVS.

Ascend has designed a new platform and method to physically validate FEA-predicted resonance as well as durability and maximum load. Using computer-aided engineering (CAE), Ascend's dedicated team works with customers on mold flow analysis, NVH testing, thermal cycling simulation and material, science and process support.

Source : PressRelease

Award-winning innovations in mood-boosting skin care

The face is a window to the soul. As social animals, humans are very adept at reading moods and even signs of illness or well-being just by the look on someone's face. Eyes play a big part,

Dyes & Chemical Market | June 2023

but so does the skin. Flushed or pale, vibrant or dull – how we feel is almost instantly expressed in our complexion. The existence of such a brain-to-skin axis is backed up by science and even



helps explain why some skin conditions can have mental origins. As studies show, however, this also works in reverse: healthy skin can positively affect our mood. This led Clariant to develop

News Round Up

its holistic concept dubbed »The Joyologist.«. It involves skin care formulations and entire beauty routines that soothe the skin and the mind.

»Self-care is hugely important, especially in a world full of troubling news that affect our mental well-being,« says Amandine Werle, a marketing specialist for Clariant Actives & Natural Origins and one of the minds behind The Joyologist. »Consumers look for ways to take better care of themselves, and beauty rituals are big part of that. Treating your skin with products that provide sensations of comfort can help improve the mood by stimulating the release of feel-good molecules such as serotonin and melatonin. This, in turn, positively impacts the skin and starts a virtuous cycle.«

Roots and sunshine

Rootness® Mood+ is one recent innovation by Clariant that takes full advantage of this effect. It is based on a natural active ingredient obtained from the roots of Sanguisorba officinalis using patented Plant Milking technology. The plant, more commonly known as the great burnet, is used in Traditional Chinese Medicine for its hemostatic, astringent properties and to help promote healing. (»Sanguisorba« literally means »blood stauncher« in Latin.) However, Rootness Mood+ makes use of a different effect: as studies trials have shown, root extracts from Sanguisorba officinalis help trigger the skin's photoreceptors and promote the uptake of vitamin D.

Vitamin D plays a key role in

the production of certain hormones. Around 90% of the human daily requirement in vitamin D is produced in the skin and triggered by exposure to sunlight. That is why natural light provides essential health benefits, from warding off seasonal affective disorder (SAD) to improving sleep. However, with modern lifestyles tending towards ever more time spent indoors, it is estimated that around 75% of the world's population is already deficient in vitamin D.

Source : Press Release

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.

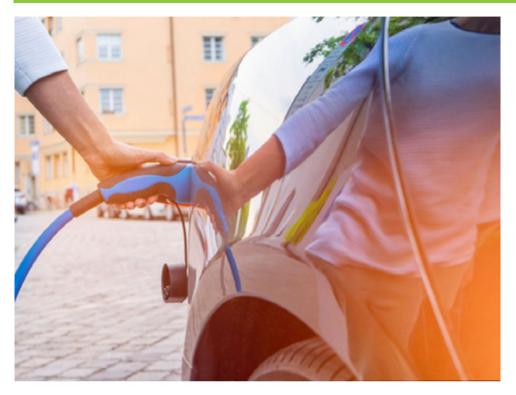
The process is already used by selected mills and it showed that Sustineri Coloring is reducing in pretreatment and dyeing the processing time by up to 60 % and the water and energy consumption by up to 80 and 60% respectively. The state-of-the-art products allow a one bath treatment which is the key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



ARKEMA ACQUIRES POLYTEC PT, A GERMAN COMPANY SPECIA-LIZED IN ADHESIVES FOR BATTERIES **ANDELECTRONICS APPLICATIONS**



 Λ Tith the planned acquisition of Polytec PT, Arkema will strengthen Bostik's product offer to serve the fast-growing batteries and electronics markets. This bolt-on acquisition is part of the Group's strategy to become a full system provider and support its customers to develop sustainable solutions for the batteries and electronics markets.

Polytec PT, a company based in Germany, develops thermal interface materials for batteries and engineering adhesives for the electronics market. It delivers around €15 million sales with one main production site in Karlsbad, Germany.

Polytec PT has developed a strong expertise in thermal interface materials which are key to enable fast charging of the battery and efficient dissipation of the heat. Polytec PT has already built a

solid position in this market. This acquisition will also complement Bostik's product range in engineering adhesives.

The project will enable Bostik to reach a turnover of around €50 million after 5 years in these high value applications by leveraging Arkema's global presence throughout all geographies.

This acquisition is a unique opportunity for Bostik's and Polytec PT's teams, who are already collaborating on new solutions. It will allow them to accelerate these developments and become a significant player in the thermal interface materials and electronics markets.

"We look forward to welcoming Polytec PT's teams and to support them in their ambitious roadmap. We are convinced that the combination of Arkema's expertise in batteries, its global adhesives footprint and Polytec PT's technologies will enable us to become a recognized partner for our customers in batteries and electronics", stated Vincent Legros, Executive Vice President, Adhesive Solutions (Bostik).

Source : Arkema







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