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OCTOBER 2023 VOLUME # 41 ISSUE # 3 MUMBAI PAGES 80



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No	Exibitions	Date	Place	
1	CPhI North America	May 7-9, 2024	Pennsylvania Convention Center, Philadelphia	
2	CPhI Barcelona	Oct 24-26, 2023	Fira Barcelona Gran Via, Spain	
3	CPhI Middle East & Africa	TBC	Riyadh, Saudi Arabia	
4	CPhI China- Virtual CPhI	June 19-21, 2024	Shanghai, China	
5	<u>CPhI Japan</u>	Apr 17-19, 2024	Tokyo, Japan	
6	CPhI Korea	Aug 27 - 29, 2024	COEX, Seoul, Korea	
7	<u>CPhI India</u>	Nov 28-30, 2023	Noida, India	
	Ν	IECS (Coating Show)		
1	Asia Pacific Coatings Show	Sept 11-13, 2024	Indonesia	
2	Saudi Arabia Coatings Show	2025	Dammam Saudi Arabia	
3	Middle East Coatings Show	April 15-17, 2024	Dubai World Trade Centre	
4	Coatings For Africa 2024	June 19-21, 2024	Johannesburg, South Africa	
		DYE+CHEM		
1	Dye+Chem Morocco International Expo	TBD	Morocco	
2	Dye+Chem Sri Lanka International Expo	TBD	Colombo Sri Lanka	
3	Dye+Chem Bangladesh International Expo	TBD	Bangladesh	
4	Dye+Chem Brazil International Expo	TBD	Brazil	
		Red Carpet Events		
1	5th Bangladesh Int'l Dyes, Pigments and Chemicals Expo	Oct 26-28, 2023	Dhaka, Bangladesh	
	_	urkey (Arkim Group)		
1	InterDye Textile Printing Eurasia	Nov 27-29 2024	Istanbul, Turkey	
2	Paint Istanbul TURKCOAT	May 8-10, 2024	Istanbul	
3	Paint Expo Eurosia	Apr 09-12, 2024	Messe Karlsruhe	
	r	Other Exhibitions		
1	Paint India	Feb 22-24, 2024	Bombay Exhibition Centre, Mumbai	
2	Expo Paint and Coating	Jan 17-19, 2024	Dhaka, Bangladesh	
3	CIPI	TBD	Mumbai, India	
4	Chemspec Europe	June 19-20, 2024	Germany	
5	<u>ChemUK Expo</u>	May 15-16, 2024	NEC, Birmingham, UK	
6	American Coatings Show	April 30-2 May 2024	Indianapolis	
7	China Coat China	Dec 2024	China Import and Export Fair	
			Complex, Guangzhou	
8	Interdye China	Apr 17-19, 2024	Shanghai, China	
9	Paint Expo Germany	Apr 09-12, 2024	Messe Karlsruhe Germany	
10	India Chem 2024	Apr-18-19 2024	Mumbai Exibition Centre, India	
11	9th Annual Sales & Marketing Effectiveness in Chemicals Summit	TBD	Cologne, Germany	
12	Inacoating 2023	July 30-Aug 1, 2024	JlExpo Kemayoran, Jakarta - Indonesia	







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Publisher: Parimal Parikh

Editor: Rajiv Parikh

Content: Pranisha P. Jadhav Sonam Parikh

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EDITORIAL

CHEMICAL MARKET

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

Why Chemical companies are reluctant to adapt to digital technologies?

The Ministry of Chemicals and Fertilizers in a statement said that the portal (charak.chemicals.gov.in) will facilitate the collection of statistics related to various aspects of the chemical sector, such as production, installed capacity, export, import, purchases and sales. We do not know yet if the data available here is up to mark but a quick search by CAS Number didn't really retrieve any results. Hope with time, the site gets us real time data. However, getting people from the chemical industry online has been the most difficult task so far. But only new generation who are more tech savvy going forward will make things more digital.

The chemical industry ranks the lowest in digital transformation according to several research that have been carried out by consultants and our own personal experience. People in this age still wants to advertise in print magazine which are just there to print ads and distribute it to people, the old school way. Pitch for ads, design it in black and white for cheap rates and print them in bulk quantities and distribute using the cheaper modes of distribution, where some people get the print magazine, while some still await and get 2-3 issues of magazine at once because they were lost in transit or kept somewhere at the post office and found again to deliver them at once. Now these magazines are not even opened to view anything unless a product is not available in the market or to just glance through the pages.

People in the chemical industry are not tech savvy or they do not want to adopt to the technology transformation of marketing or advertising, and still wants to advertise in a print magazine where the paper quality and ink quality is deterioting due to its high cost, but still print magazine companies wants to distribute it because the company directors and company owners want it that way and at the same time make money. It doesn't matter that these magazines are rarely opened and the cost of paper and ink and in turn to the environment is huge, but they still want it that way! They don't want to go digital, they don't want to adapt to new technologies. Hope this will change with the change of the generations and people running the big firms.

It won't be too long when someone will surprise the industry with a non-conventional, non-traditional approach to deliver

value to the new age customers. Those chemical companies who do not want to be taken by surprise, might want to rethink, take note of things required for digital transformation, whether it is marketing, advertising, factory automation or anything that can make things simpler and allow their organization to question each of the traditional approaches and think out of the box to make a difference using the new digital transformation techniques. Think about it, India is looking forward to be a 5T economy and the fastest way to reach out to the masses is via the Internet. Reach the potential customers by advertising and make your presence felt by thousands of companies all over the globe because once a portal or a website is dedicated to an industry, irrespective of anything, people in the industry will definitely find its way to the portal or website and ultimately you and your company in the chemical industry. On that note, I would like to invite you and join us, post your products on our portal chemical market leads platform, get access to the pricing modules, get access to our magazine that is distributed digitally to more than 40k people globally. Be a part of the revolution and make your presence felt.

The digitalization rate in the overall chemical industry is significantly higher among larger and global manufacturers, while a major share of medium and small regional or local companies are at the early adoption or no adoption stage due to the lack of adequate budget and the knowledge on where to begin. Most of the larger corporations have planned to invest about 5% of their annual revenues in further digitalization of their various operations over the next five years. Its like the rich (bigger companies) will likely get richer and the smaller companies will likely struggle and won't be able to complete with the richer. The rate at which technology should be adopted by the smaller players should exceed the rate at which it is adopted by the bigger players. The big players have a process to transform anything, but the smaller companies should be able to do things quicker because the process cycle is much smaller than that in the larger companies. The first mover in adopting technology will always win. Technology adoption saves time, saves man hours and efforts and ultimately increases sales and innovation.

-Rajiv Parikh









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.....

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RATHEESH RAMANKUTTY

Co-Founder & CEO

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API PRODUCTS					
Sr. No.	Product	Grade			
1	PENTOPRAZOLE SODIUM	IP / USP			
2	PREGABALIN	IP / USP / BP			
3	OXCARBAMAZEPINE	IP / USP			
4	CARBAMAZEPINE	IP / USP			

INORGANIC PRODUCTS						
Sr. No.	Product	Grade				
1	SODIUM NITRATE	DOMESTIC / EXPORT				
2	CALCIUM CHLORIDE	DOMESTIC / EXPORT				
3	FERRIC CHLORIDE ANHYDROUS	DOMESTIC / EXPORT				
4	POTASSIUM CHLORIDE	DOMESTIC / EXPORT				
5 CHLORO ACETYL CHLORIDE DOMESTIC / EXPORT						

QC ANALYTICAL IMPURITIES						
Sr. No.	Product	Grade				
1	REACTION MONITORING IMPURITIES	IP / USP / BP				
2	INTERMEDIATE ANALYSIS IMPURITIES	IP / USP / BP				
3	API ANALYSIS IMPURITIES	IP / USP / BP				



Dilip Shah

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1	Acetyl Chloride	75-36-5
2	Alumina Oxide /Basic/ Acidic/ Neutral	1344-28-1
3	Benzoyl Chloride	98-88-4
4	Hcl Gas In Methanol	7647-01- 0
5	Methyl Chloroformate	79-22-1
6	Methylamine Hydrochloride	593-51-1
7	Monomethylamine In Methanol	74-89-5
8	Pyrophosphoryl Chloride	13498-14-1
9	4m Hcl Acid In 1,4-Dioxane	7647-01-0
10	Methylamine Solution 40%	74-89-5

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 30%. * Manganese Sulphate 32% * Magnesium Sulphate (Dried Powder)
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Zinc Sulphate(Mono) 28% And 33%

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MUMBAI PRICE TREN	ID - 14.10.2023	1	TE4	TE4 98+
Organic & Inorganic Chemicals Price (Rs/Kg)		1	POTASSIUM CARBONATE	POTASSIUM CARBONATE 128
РМА	114+	1	ACRYLIC ACID	ACRYLIC ACID 96+
SOLVENT C9 -BARRELS	107+		EAM	EAM 138+
TOLUENE - BARRELS	92+		DCDA	DCDA 160+
NBA - BARRELS	98+	1	P. G	P. G 131+
EDC	45+	1	IPA	IPA 94+
NPA	116+	1 [ACETONE	ACETONE 87+
CL	37+		MIX XYLEN	MIX XYLEN 95*+
MDI	18+	1	O. XYLENE	O. XYLENE 103+
PHOESPHORIC ACID	98+	1	BENZENE	BENZENE 82+
MEALIC ANHYDRIDE	85+	1	MEG	MEG 54+
NIETRO BENZENE	100+	1	DEG	DEG 85+
DMF	88+	1	GLYCERINE	GLYCERINE 65+
ACITIC ACID	45+	1	SORBITOL	SORBITOL 47.50
МЕК	117+] <u>s</u>	SODA ASH	SODA ASH 1715+
CYCLO	144*+	SN	ABS	ABS 37+
ETHYLE ACETATE	85+	SB	С	C 1940+
FORMAL	19+	M	ETHANOL	ETHANOL 31.50+
BUTYL ACETATE	107+	M	IIBK	IIBK 175+
CAUSTIC POTASH	113+		МСВ	MCB 76+
ALPHOX	161+] [ODCB	ODCB 91+

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

Broker in Chemicals & Solvents

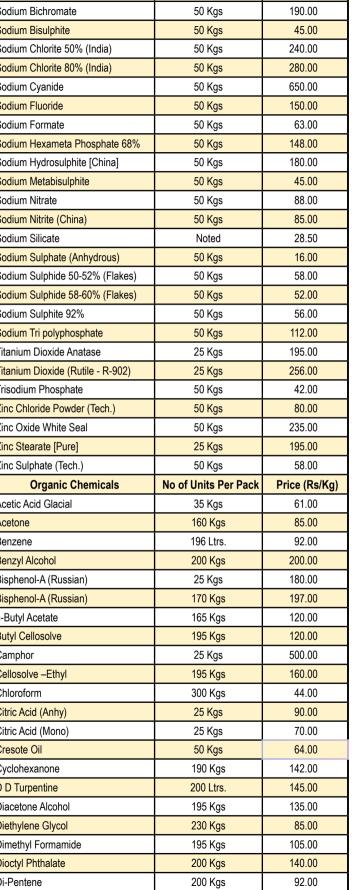
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Market Prices given in this Magazine is to know market trend only. We assume no responsibility for availability of products at quoted prices.



	E TREND – 14		Sodium Disarbanata	
Inorganic Chemicals	No of Units Per Pack	Price (Rs/Kg)	Sodium Bicarbonate	
Acid Slurry (Soft)	50 Kgs	125.00	Sodium Bichromate	
Alum- Ferric	50 Kgs	22.00	Sodium Bisulphite	
Ammonium Bicarbonate	25 Kgs	25.00	Sodium Chlorite 50% (India)	
Ammonium Bi Fluoride [sugar-grade]	50 Kgs	178.00	Sodium Chlorite 80% (India)	
Ammonium Carbonate	50 Kgs	90.00	Sodium Cyanide	
Ammonium Chloride	50 Kgs	35.00	Sodium Fluoride	
Ammonium Nitrate	50 Kgs	30.00	Sodium Formate	
Ammonium Phosphate (Mono)	50 Kgs	135.00	Sodium Hexameta Phosphate 68%	
Ammonium Sulphate	50 Kgs	22.00	Sodium Hydrosulphite [China]	
Antimony Trioxide	50 Kgs	1050.00	Sodium Metabisulphite	
Barium Chloride	50 Kgs	58.00	Sodium Nitrate	<u> </u>
Bleaching Powder (33% Cl)	25 Kgs	14.00	Sodium Nitrite (China)	
Borax (Granular)	50 Kgs	72.00	Sodium Silicate	
Boric Acid (Tech.)	50 Kgs	108.00	Sodium Sulphate (Anhydrous)	
Calcium Carbonate (Activate)	50Kgs	18.00	Sodium Sulphide 50-52% (Flakes)	
Calcium Carbonate (Precipitated)	50 Kgs	17.00	Sodium Sulphide 58-60% (Flakes)	
Calcium Chloride Lump 70%	50 Kgs	14.00	Sodium Sulphite 92%	
Calcium Chloride-Anhydrous	50 Kgs	24.00	Sodium Tri polyphosphate	
Camphor Oil	200 Litres	135.00	Titanium Dioxide Anatase	
Caustic Potash (Flakes)	50 Kgs	100.00	Titanium Dioxide (Rutile - R-902)	
Caustic Soda (Flakes)	25 Kgs	43.00	Trisodium Phosphate	
Caustic Soda (Prills)	50 Kgs	98.00	Zinc Chloride Powder (Tech.)	
Chromic Acid Flakes	50 Kgs	320.00	Zinc Oxide White Seal	
Chlorinated Xylene	25 Kgs	85.00	Zinc Stearate [Pure]	
Copper Sulphate	180 Kgs	220.00	Zinc Sulphate (Tech.)	
Di ammonium Phosphate	50 Kgs	34.00	Organic Chemicals	No d
Dioctylmalite	180 Kgs	82.00	Acetic Acid Glacial	
Ferric Chloride (Anhydrous)	Naked	39.00	Acetone	
Ferrous Sulphate – Crystals	50 Kgs	16.00	Benzene	
Hydrochloric Acid	Naked	6.00	Benzyl Alcohol	
Hydrogen Peroxide 50%	50 Kgs	34.00	Bisphenol-A (Russian)	
Hyflosupercell	22.7 Kgs	138.00	Bisphenol-A (Russian)	
Litharge	50 Kgs	220.00	n-Butyl Acetate	
Lithopone B301(China)	25 Kgs	112.00	Butyl Cellosolve	
Magnesium Carbonate (Indian)	50 Kgs	130.00	Camphor	
Magnesium Sulphate	50 Kgs	18.00	Cellosolve –Ethyl	
Mercury	34.5 Kgs	7800.00	Chloroform	
Napthaline Balls	50 Kgs	130.00	Citric Acid (Anhy)	
Nickel Chloride	25 Kgs	650.00	Citric Acid (Mono)	
Phosphoric Acid (85% Tech)	50 Kgs	105.00	Cresote Oil	
Potassium Carbonate (Powder)	25 Kgs	178.00	Cyclohexanone	
Potassium Carbonate (Granules)	25 Kgs	100.00	D D Turpentine	
Potassium Carbonate (Granules) Potassium Nitrate	_	150.00	Diacetone Alcohol	
	50 Kgs	200.00	Diethylene Glycol	
Potassium Permanganate [Tech]	50 Kgs		Dimethyl Formamide	
Potassium Permanganate [Pure]	50 Kgs	220.00	Dioctyl Phthalate	
Potassium Phosphate (Di) S.L.E.S	50 Kgs 50 Kgs	158.00 55.00	Di-Pentene	[



50 Kgs

50 Kgs

3400.00

33.00





EDTA Acid	05 Km	288.00		EQ Kas	125.00
	25 Kgs		Paraffin Wax (White)	50 Kgs 25 Kgs	
EDTA Disodium	25 Kgs		248.00 Para formaldehyde 91%		100.00
EDTA Tetrasodium	25 Kgs	248.00	Perchloroethylene	320 Kgs	120.00
Ethyl Acetate	185 kgs	96.00	Phenyl Liquid	230 Kgs	105.00
Ethylene Dichloride	200 Kgs	54.00	Phthalic anhydride	25 Kgs	115.00
Ethylene Glycol-mono	230 Kgs	63.00	Pine Oil 22%	200 Litrs	110.00
Formaldehyde	65 Kgs	26.00	Pine Oil 40%	200 Litrs	190.00
Formic Acid	35 Kgs	65.00	Polyethelene Glycol 400	230 Kgs	118.00
Formic Acid	250 Kgs	63.00	Polyethelene Glycol 600	230 Kgs	140.00
Hexamine – Tech	50 Kgs	100.00	Propylene Glycol	215 Kgs	128.00
n-Hexane	160 Litrs	68.00	Poly Aluminium Chloride	25 Kgs	34.00
Hydroquinone (Imported)	25 Kgs	850.00	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	115.00
Maleic Anhydride	25 Kgs	120.00	Sodium Acetate	50 Kgs	34.00
Methyl Ethyl Ketone	166 Kgs	120.00	Sodium Benzoate	50 Kgs	105.00
Methyl Isobutyl Ketone	160 Kgs	180.00	Sorbitol	250 Kgs	52.00
Methyl Isobutyl Ketone (Refill)	160 Kgs	170.00	Stearic Acid (cosmetic)	50 Kgs	125.00
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	400.00
Monochloro Phenol	50 Kgs	120.00	Toluene	200 Ltrs	96.00
Nitrobenzene	200 Kgs	116.00	Trichloroethylene	280 Kgs	120.00
Octanol (2-ethylhexanol)	160 Kgs	130.00	Triethanolamine	210 Kgs	125.00
Oleic Acid	50 Kgs	140.00	Vinyl Acetate Monomer	185 Kgs	105.00
Oxalic Acid (Punjab)	50 Kgs	65.00	Xylene Mixed	185 Kgs	98.00
			O-Xylene	185 Kgs	120.00

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		a 1			
Product Name		Grade	Product Name	Qty	Grade
Perfume 🔛		ndustrial	Ethyl $3-(2-(((4-cyano-phenyl)amino)meth-$		
Dye		ndustrial	yl)-1- methyl-N-(pyri-		
		ndustrial	din-2-yl)-1H-benzo[d]	5 Kgs	None
Enzyme Mikon ATC - activator this is	10 Ltrs 1	ndustriai	imidazole-6-carboxamido)	0	
a brand name	0	ndustrial	propanoate CAS#:- 211915- 84-3		
Bavhibit AM		ndustrial	Details : Need this Dabigatran in	ntermediate fo	r trial pur-
		ndustrial	pose.		- •••••• F •••
PBS4 -sodium perborate tetra		ndustrial			
		ndustrial	Product Name	Qty	Grade
		ndustrial	Bromoacetaldehyde Dimethy	l 500 Kgs	Industrial
		ndustrial	Acetal CAS NO:- 7252-83-7		
		ndustrial	Details : We have the following r		
		ndustrial	send your best offer for the same	e with the lead	time 🔊
		ndustrial	and specifications.		
1 1	0	ndustrial	Product Name	Qty	Grade
Details : quote the best price with	lead time C	OA & MSDS	Allyl Chloride 99% //	1 Can	Virgin-
Product Name	Qty	Grade	107-05-1 // A43930	1 Call	Pure
H.D.P.E. BEND 160 MM (6")		Giude	Details : We need the material		
PRESSURE - 6 KGS AS PER	3 Nos	None	Product Name	Qty	Grade
MAKE JAIN /KOTHARI			Aminomethane		
H.D.P.E. TAIL PIECE LONG 160			CAS#:- 77-86-1	4 Tones	None
MM (6") PRESSURE - 6 KGS	8 Nos	None ᠺ	Details : Pharma application		
MAKE JAIN /KOTHARI		\sim			
H.D.P.E. PIPE 160 MM (6") PRES			Product Name	Qty	Grade
SURE - 6 KGS AS PER MAKE	24 Mtrs	None	TALL OIL	1 Tones	Industrial
JAIN /KOTHARI H.D.P.E. ELBOW 200 NB PRES-		-	Details : Please inform best pric	· 1	share it's GC
SURE - 6 KGS, AS PER 3 NOS	3 Nos	None	& lab analysis report & it's COA		
H.D.P.E. LONG STUB END 200			Product Name	Qty	Grade
NB PRESSURE - 6 KGS AS PER	10 Nos	None	Methacryloyl Chloride CAS#		
IS:4984:1995 MAKE KOTHARI			:- 920-46-7	500 Kgs	Industrial
H.D.P.E. PIPE 200 NB PRES-			Details : Please share your best	offer on basis	FOR
SURE - 6 KGS, GRADE - PE-	54 Mtrs	None	Ahmedabad along with the CO		/ • \
100 AS PER IS:4984:1995 Make		rtone	packing detail and payment ter	ms.	
KOTHARI			Product Name	Qty	Grade
Details : Please quote the best pric	e with lead	time	Methacryloyl Chloride		Grade
Product Name	Qty	Grade	CAS# :- 920-46-7	500 Kgs	Industrial
Cyclohexyl Chloride	3000 Kgs	Industrial	Details : Please share your best	offer on basis	FOR
Details : Please quote the best price	e with lead	time COA &	Ahmedabad along with the CO		
MSDS			detail and payment terms.		
Product Name	Qty	Grade	Product Name Qty	Grade	
DEFOAMER // 126-86-3 // 38111900 // LL 9900	1 Tonnes	Chemical	Succinic Acid 99%-food grade chemical 80 I	Kgs Industr	ial 🕓
Details : Leads for : LUBRICANTS	ADDITIV	ES	Details : Food Grade Chemical	1	
			Setund 1 500 Grude Chemical		



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Qty

Grade

Product Name		Qty	Grade	Product Name
Soda Ash		5000	Any	Ethyl 3-(2-(((4-cy phenyl) a m i n o) m e
Details : Please quote the best		0	time & COA	yl)-1- methyl-N-(
	·			din-2-yl)-1H-benz
Product Name		Qty	Grade	imidazole-6-carboxam propanoate CAS#:- 211
Cyclopentyl Chloride 🛛 🔍		5000	Industrial	84-3
Cas no: 930-28-9		Kgs		Details : Need this Dabigat
Details : Cyclopentyl Chloride	e Cas	no: 930-2	3-9	pose.
Product Name Q	ty	G	rade	Due du et Neure
Sodium Nitrate (By-				Product Name
,) Tor	nnes In	dustrial 💟	Bromoacetaldehyde Din Acetal CAS NO:- 7252-8
7631-99-4				Details : We have the follow
Details : Please quote the best	price	with lead	time & COA.	send your best offer for the
Product Name		Qty	Grade	and specifications.
Sertraline IP grade 🛛 🐧		5	Industrial	Product Name
Pigments Chemicals		lonnes		Allyl Chloride 99% //
Details : IP Grade, Please quot	te the	e best price	e with lead	107-05-1 // A43930
time & COA.				Details : We need the mate
Product Name		Qty	Grade	Product Name
Methacrylic Acid // 79-41-4	1	1 Drum	s None	Aminomethane
Details : Leads Fro : BHUMIC	CHEN	1	\mathbf{N}	CAS#:- 77-86-1
roduct Name		Qty	Grade	Details : Pharma applicati
Concentrated Nitric Acid		10		Due la 4 Marsa
8% Cas no: 7697-37-2	$\mathbf{\Sigma}$	Tonnes	Industrial	Product Name TALL OIL
etails : Please quote the best p	price	with lead	time & COA.	Details : Please inform bes
Product Name	0	Qty	Grade	& lab analysis report & it's
Nitroethane Cas no: 79-24-3		100 Kgs	Industrial	
Details : Please quote the best p		· · · · · · · · · · · · · · · · · · ·	1	Product Name
•				Methacryloyl Chloride
Product Name		Qty	Grade	:- 920-46-7
2-Bromo Benzoic Acid		3 Tonnes	Industrial	Details : Please share your Ahmedabad along with th
Cas no: 88-65-3	Dlac			packing detail and payme
Details : Regular every Month. vith lead time & COA.	riea	se quote ti	le best price	
				Product Name
Product Name		Qty	Grade	Methacryloyl Chloride CAS# :- 920-46-7
Gemcitabine HCL IP		13 Kgs	Industrial	Details : Please share your
Cas no: 122111-03-9	rith la	Ũ		Ahmedabad along with th
Details. quote the best pille w			CUA.	detail and payment terms
Product Name		Qty	Grade	Product Name
DEFOAMER // 126-86-3	0	1 Tonnes	Chemical	Succinic Acid 99%-food
// 38111900 // LL 9900	9			
Details : Leads for : LUBRICAN	NTS	ADDITIV	ES	Details : Food Grade Chem
Details : Leads for : LUBRICAN	NTS	ADDITIV	ES	grade chemical Details : Food Grade

1 Iouuct Maine		<u>z y</u>		Ulauc				
Ethyl 3-(2-(((4-cyano- phenyl) a m i n o) m e t h - yl)-1- methyl-N-(pyri-								
din-2-yl)-1H-benzo[d] 5 Kgs None								
imidazole-6-carboxamido)								
propanoate CAS#:- 2119 84-3	13-							
Details : Need this Dabigate	an inte	erm	ediate for	r trial pur-				
pose.								
Product Name		Qt	y	Grade				
Bromoacetaldehyde Dim Acetal CAS NO:- 7252-83	3-7		0	Industrial				
Details : We have the follow send your best offer for the and specifications.								
Product Name	(Qty		Grade				
Allyl Chloride 99% // 107-05-1 // A43930	\sim	Ca	n	Virgin- Pure				
Details : We need the mater	rial							
Product Name		Qty	7	Grade				
Aminomethane CAS#:- 77-86-1		4 To	ones	None				
Details : Pharma applicatio	n							
Product Name		Qty		Grade				
TALL OIL			ones	Industrial				
Details : Please inform best & lab analysis report & it's	-	aise	o please s					
Product Name		Qty	y	Grade				
Methacryloyl Chloride C :- 920-46-7	CAS#	+ • •		Industrial				
Details : Please share your best offer on basis FOR Ahmedabad along with the COA, delivery time, packing detail and payment terms.								
Product Name		Qty	7	Grade				
Methacryloyl Chloride S 500 Kgs Industrial								
Details : Please share your best offer on basis FOR Ahmedabad along with the COA, delivery time, packing detail and payment terms.								
Product Name	Qty		Grade					
Succinic Acid 99%-food grade chemical 80 Kgs Industrial S								
Details · Food Grade Chemi		50	maaoti					

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Product Name	ty (Grade	MDC (Cas no:- 75-09-2)	200 Kgs	Industrial
Sodium Thiosulphate			Stearic Acid (Cas no:- 822-16-2)	25 Kgs	Industrial
Powder 5	Kgs I	ndustrial	Acetone (Cas no:- 67-64-1)	200 Ltrs	Industrial
Details : Photo cleaning			Ammonia (Cas no:- 7664-41-7)	50 Kgs	Industrial
Product Name	Qty	Grade	Hyflow (Cas no:- 61790-53-2)	50 Kgs	Industrial
Nateglinide API [ENA16381]	20 Kgs	Industrial	Activated Carbon (Cas no:- 7440-	25 Kgs	Industrial
Paroxetine HCl			44-0)	23 Kgs	Industrial
Hemihydrate API	700 Kgs	Industrial	Ethyl Succinyl Chloride (Cas no:- 14794-31-1)	25 Kgs	Industrial
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	Industrial
Methanol (Cas no:- 67-56-1)	200 Ltrs	Industrial	Sodium Hydroxide (Cas no:-	25 Kgs	Industrial
HCL (Cas no:- 7647-01-0)	50 Ltrs	Industrial	1310-73-2)		
Di-methyl Formmide (Cas no:-	İ		Ethyl Acetate (Cas no:- 141-78-6)	200 Ltrs	Industrial
68-12-2)	2 Kgs	Industrial	Erythromycin thiocynate (Cas no:- 231-723-1)	50 Kgs	Industrial
Copper(II) Acetate Mono Hydrate (Cas no:- 142-71-2)	5 Kgs	Industrial	(4R)-3-[(25,5R)-5-(4-Flu-		
Sodium Carbonate (Cas no:- 497-	25 Kgs	Industrial	orophenyl)-2-[(R)-[(4- fluorophenyl) amino]		
19-8)	-		[4-[(trimethylsilyl)oxy]phenyl]	500 Kgs	Industrial
Toluene (Cas no:- 108-8-3)	200 Ltrs	Industrial	methyl]-1-oxo-5-[(trimethylsilyl)		
2,3 Xylidine (Cas no:- 87-62-7)	25 Ltrs	Industrial	oxy]pentyl]-4-phenyl-2- oxazolidi-		
Ortho Chloro Benzonic Acid (Cas	50 Kgs	Industrial	none (CAS NO:- 27277812-8)	-	
no:- 118-91-2)	0		(-)-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	s Industrial
Dimethyl Sulphoxide (Cas no:- 67-		Indusr-	NO:- 300543-56-0)		
68-5)	200 Lts	trial	2-[2-[4-[(R)-(4-Chlorophenyl)		
N-Methyl Piperazine (Cas no:-	50.14		phenylmethyl]-1-piperazinyl]	100 0	T. 1. (
109-01-3)	50 Ltrs	Industrial	ethoxy]-acetamide (CAS NO:-	100 Gms	5 Industrial
Ofloxacin Q Acid (Cas no:- 82419-	50 Kgs	Industrial	909779-33-5)		
35-0)	<u> </u>		Levocetirizine Dihydrochloride	100 Gms	s Industrial
Formic Acid (Cas no:- 64-18-6)	25 Kgs	Industrial	(CAS NO:- 130018-87-0)		induotriur
Formaldehyde (Cas no:- 50-00-0)	50 Ltrs	Industrial	3-(Trifluoromethyl)-5,6,7,8-tet- rahydro-triazolopyrazine Hydro-	2000	Industrial
Dichloromethane (Cas no:- 75-	200 Ltrs	Industrial	chloride (CAS NO:- 762240-92-6)	Kgs	Industrial
09-2) Sodium Porobudrido (Cos por			(3R)-N-(tert-Butoxycarbonyl)-		
Sodium Borohydride (Cas no:- 16940-66-2)	25 Kgs	Industrial	3-amino-4-(2,4,5-trifluorophenyl)	2000	Industrial
Methane Sulfonyl Chloride (Cas			butanoic (CAS NO:- 486460-00-8)	Kgs	
no:- 124-63-0)	25 Ltrs	Industrial	Carbonyl diimidazole (CAS NO:-	2000	Industrial
Acetic Acid (Cas no:- 64-19-7)	50 Lts	Industrial	530-62-1)	Kgs	Industrial
Hydroxylamine hydrochloride			Details : Chemicals Required for Pr		elopment Lab
(Cas no:- 5470-11-1)	25 Kgs	Industrial	Trials, More quantity required after	test	
Erythromycin Base (Cas no:- 114-	25 Kgs	Industrial	Product Name	Qty (Grade
07-8)	25 125	Industrial		2000	
Propionic Anhydride (Cas no:-	25 Kgs	Industrial	Drums	Drums	NA 🕓
123-62-6)	8-		Details : HDPE drums Capacity 20		r, 300 ltr.
Sodium Lauryl Sulphate (Cas no:-	25 Kgs	Industrial	Please reply at the earliest. Needed		
151-21-3)					

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Dyes & Chemical Market | October 2023 28





Product Name	Qty	Grade
Bromoacetaldehyde Dimethyl Acetal CAS NO:- 7252-83-7	500 Kgs	Industrial
Details : We have the following requirement kindly send		

your best offer for the same with the lead time and specifications.

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

Product Name	Qty	Grade
PyBOP (Cas no- 128625-52-5)	1 Tonnes	Industrial
Ethyl Pyruvate (Cas no:- 617-35- 6)	1 Kgs	Industrial

Details : 1) We have a requirement of the below Chemical kindly quote your best. Pricing along With Recent batch COA and lead time. We need 100kg, 500kg & 1400kg.



2) We have a requirement of the below Chemical kindly quote your best pricing along With COA and lead time.

Product Name	Qty	Grade	
TRANS, TRANS-2, 4-HEXADI-			
ENYL ACETATE	10	Chemical	
(Cas no:- 1516-17-2) 🛛 🔊	Tonnes	Cileinicai	
(Hs Code:- 29153900)			
Butyllithium 23% in Hexane (Cas	1 Tonnoo	Industrial	
no:- 109-72-8)	2 Tonnes	maustriai	
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?			
	1	1	

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



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Product Name	Qty	Grade	
Methane Sulphonic Anhy- dride CAS NO:- 7143-01-3	30 Kgs 🕓	Industrial	
Details : Please quote the best pr	ice.		
Product Name	Qty	Grade	
5-Fluorocytosine CAS# :- 2022-85-7	500 Kgs	Industrial	
Delivery: CIP MUMBAI AIR Descripiton:- Pls send best quote along with delivery period.			
Product Name	Otv	Grade	

Product Name	Qty	Grade	
Manganese Dioxide	10	T. 1	
(90%) CAS# :- 1313-13-9	12 Tonnes	Technical	
Payment terms : 1 Month Description:- Please send			
best quote along with COA/MSDS, & 4 Kg Sample			
required for testing purpose.			

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

DetergentSolvent"Solves- so2000 LtrsNone10214-78)2000 LtrsNoneSolvent 646 GOST 18188-7290 LtrsNoneSolvent 646 GOST 18188-7290 LtrsNoneLeads : 1. Technical documentation such as drawings, datasheets and etc./ if applicable 2. All applicable material certificates (COC , MTC, Calibration ,etc.,) 3. Exact or approximate packing information and HS codes. 4. De- livery term we prefer FCA or DAP Baku & for EXW term Pick-up Address. 5. Price offer should be valid 1 month. Other Technical Details:- Color - transparent or yellow- ish Density at 200C - 0.860 gr./m3 Volatility (based on xylene) - 8 - 15 Sulfur content - 0.020% Ignition tempera- ture (open crucible) - 270C	Product Name	Qty	Grade
Leads : 1. Technical documentation such as drawings, datasheets and etc./ if applicable 2. All applicable material certificates (COC, MTC, Calibration,etc.,) 3. Exact or approximate packing information and HS codes. 4. De- livery term we prefer FCA or DAP Baku & for EXW term Pick-up Address. 5. Price offer should be valid 1 month. Other Techinical Details:- Color - transparent or yellow- ish Density at 200C - 0.860 gr./m3 Volatility (based on xylene) - 8 – 15 Sulfur content - 0.020% Ignition tempera-	so 100 (C4 163-180 GOST	2000 Ltrs	None 🕥
datasheets and etc./ if applicable 2. All applicable material certificates (COC, MTC, Calibration,etc.,) 3. Exact or approximate packing information and HS codes. 4. De-livery term we prefer FCA or DAP Baku & for EXW term Pick-up Address. 5. Price offer should be valid 1 month. Other Techinical Details:- Color - transparent or yellow-ish Density at 200C - 0.860 gr./m3 Volatility (based on xylene) - 8 – 15 Sulfur content - 0.020% Ignition tempera-	Solvent 646 GOST 18188-72	90 Ltrs	None
ture (open er delble) - 2700	datasheets and etc./ if applicable certificates (COC, MTC, Calibr approximate packing information livery term we prefer FCA or DA Pick-up Address. 5. Price offer st Other Techinical Details:- Color ish Density at 200C - 0.860 gr./n	2. All application ,etc.,) 3. on and HS cod AP Baku & for hould be valid - transparent 13 Volatility (b	ble material Exact or es. 4. De- EXW term 1 month. or yellow- pased on

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

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

Population Growth and Environmental Regulations Drive Robust Growth in the Global Water Treatment Chemicals Industry

DUBLIN, Sept. 19, 2023 /PRNewswire/ -- The "Water Treatment Chemicals Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028" report has been added to ResearchAndMarkets. com's offering.

The global water treatment chemicals market, with a market size of US\$36.2 billion in 2022, is projected to witness substantial growth, reaching US\$48.5 billion by 2028.

This growth is anticipated to be driven by a robust Compound Annual Growth Rate (CAGR) of 5.9% during the forecast period from 2023 to 2028, according to this.report.

Water treatment involves processes aimed at removing impurities from water, rendering it safe for various industrial and domestic applications. The four primary water treatment processes include boiler water treatment, water purification, cooling water treatment, and wastewater effluent treatment. These processes help eliminate suspended solids, fungi, viruses, algae, bacteria, and minerals present in water. Various chemicals are employed in the water treatment process, such as algicides, muriatic acid, chlorine, chlorine dioxide, and soda ash. The growing global demand for safe and fresh water, in light of insufficient water supply, is driving the increasing use of water treatment chemicals for purifying ground, sea, and industrial wastewater.

Global Water Treatment Chemicals Industry Drivers:

Several factors are contributing to the growth of the water treatment chemicals market:

- Population Growth and Industrialization: The rising global population and rapid industrialization in both developed and emerging markets are increasing the demand for clean and usable water.
- Industrial Demand: Various industries, including power, oil and gas, metal and mining, pulp and paper,

and chemical processing, require clean water. This demand for industrial water treatment chemicals is a significant driver of market growth.

- Wastewater Recycling: Limited access to potable water has led to increased wastewater recycling, which further fuels market expansion.
- Environmental Regulations: Stringent environmental regulations, government initiatives to promote cleaner water, and heightened consumer awareness of pollutant effects are driving demand for water treatment chemicals.
- Consumer Awareness: Growing consumer awareness of the adverse impacts of pollutants in water sources is boosting demand for water treatment chemicals.

Read the full report : <u>https://www.re-</u> <u>searchandmarkets.com/r/gfwnio</u> If you want your report abstract to be published please contact <u>info@chemicalmarket</u>. <u>net</u>

Global Industrial Sludge Treatment Chemicals Industry Research Report, 2022-2023 & 2028: Natural and Biodegradable Chemicals Revolutionize Sludge Treatment, Enhancing Sustainability and Soil Health

DUBLIN, Sept. 19, 2023 /PRNewswire/ -- The "Industrial Sludge

Treatment Chemicals Market by Sludge Type, Process Chemical, Process Treatment, End User, and Region 2023-2028" report has been added to ResearchAnd-



Markets.com's offering.

The global industrial sludge treatment chemicals market size reached US\$ 6.3 Billion in 2022. Looking forward, the market is set to reach US\$ 8.5 Billion by 2028, exhibiting a CAGR of 5.12% during 2022-2028.

The global industrial sludge treatment chemicals market is witnessing significant growth, driven by escalating environmental concerns and the increasing adoption of biodegradable chemicals. Advanced industrial sludge treatment technologies are also contributing to market expansion.

These chemicals play a crucial role in

improving the dewatering of sludge, reducing odor, enhancing stability, and recovering valuable nutrients from sludge, which can be repurposed as soil conditioning fertilizers. North America leads the market, fueled by rising water and sewage treatment initiatives and the introduction of advanced treatment technologies.

Governments worldwide are promoting industrial sludge treatment, addressing environmental issues, and implementing sustainable waste management programs. Population growth, industrialization, and a shift towards natural and biodegradable chemicals further boost market demand. Increasing wastewater treatment plants, heightened consumer awareness of pollution impacts, and innovations in high-performance sludge treatment technologies, such as membrane filtration and anaerobic digestion, are key drivers of market growth.

Competitive analysis and player positioning provide insights into the global industrial sludge treatment chemicals market landscape, helping stakeholders make informed decisions.

Read the full report : <u>https://www.re-</u> searchandmarkets.com/r/m93rsz

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

Global Interior Architectural Coatings Markets, 2022-2023 & 2028: Asia-Pacific Stands as the Largest Market with China Spearheading Growth

DUBLIN, Sept. 18, 2023 /PRNewswire/ -- The global interior architectural coatings market has achieved a significant milestone, reaching a size of US\$ 46.6 Billion in 2022. Looking ahead, industry experts anticipate robust growth, with the market poised to reach US\$ 59.3 Billion by 2028, reflecting a commendable growth rate (CAGR) of 4.3% during the period spanning from 2023 to 2028.

This comprehensive report meticulously categorizes the market based on various parameters, including resin type, technology, distribution channel, type of consumer, and end-use sector.

Interior architectural coatings play a pivotal role in the meticulous management of interior spaces within buildings, taking into account a myriad of construction facets. These encompass finishes, plumbing, lighting, materials, electrical requirements, and the strategic utilization of available space. Architectural coatings, predominantly organic in nature, serve the dual purpose of enhancing the aesthetics and safeguarding the interior surfaces of structures.

Consumers, when making selections, consider a diverse array of aesthetic and performance attributes. These encompass hiding power, ease of application, flow and leveling, low volatile organic compound (VOC) emissions, user protection from harmful substances, stain resistance, environmental sustainability, and low odor. The market offers an array of coating types, including varnishes, sealers, wall paints, primers, ceramics, and more.

In recent years, both the commercial and residential sectors have witnessed a surge in construction activities, driving market growth. Consumers worldwide have become increasingly discerning, seeking premium-quality coatings that enhance the beauty and protection of their homes. Furthermore, many emerging economies are undergoing a transitional phase, leading to an upswing in infrastructural activities and heightened demand for superior interior architectural coatings. Additionally, growing concerns about environmental degradation have spurred manufacturers to develop sustainable, eco-friendly coatings that provide effective protection.

Asia Pacific stands as the largest market, commanding a significant share of the industry. This growth can be attributed to the rapid expansion of rail and road infrastructure, surging construction endeavors in China, and increased investments in overseas infrastructure projects in Japan.

Read the full report : <u>https://www.re-</u> searchandmarkets.com/r/mubail

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



ION Clean Energy Heads Back to Technology Centre Mongstad

BOULDER, Colo., Sept. 19, 2023 / PRNewswire/ -- ION Clean Energy and Technology Centre Mongstad (TCM) have come to terms on an agreement to bring ION's groundbreaking ICE-31 solvent technology to TCM for further validation of the technology's performance over parametric and steady-state testing that will demonstrate the ION solvent's remarkable stability and prove that there is no significant solvent degradation as the technology is scaled up.

The initiative is part of ION's commercial development program and will take the ICE-31 solvent's Technology Readiness Level (TRL) from TRL 6 to TRL 7 with a successful campaign. Successfully testing ICE-31 at the scale of TCM will decrease the financial risk for ION and its customers because it will prove the technology's performance at a larger scale than prior testing has allowed. Additionally, ION will gather valuable process data and increase its knowledge of how the technology performs in greater detail than previously possible.

"TCM is the world's foremost testing ground for carbon capture technologies and we're excited to return and further prove the transformative performance of ICE-31," said ION Chief Technology Officer, Erik Meuleman, Ph.D. "The team at TCM is world class and the data we derive from this campaign will prove that our technology is as well. We're excited to get back to Norway and continue our efforts to deploy ICE-31 commercially as we all work towards a shared goal of net-zero carbon emissions."

As the world's largest and most flexible carbon capture test center available to the public, TCM has the ability to demonstrate the performance of the most mature amine technologies, further de-risking and optimizing the performance that allows the TRL for a technology to increase.

"We are very excited to see ION coming back to TCM with their ICE-31 solvent. At TCM, we are pleased to be able to contribute with our expertise and more than 10 years of experience with CO2 capture technology," said TCM Technology Manager, Matthew Campbell.

Both the US Department of Energy (DOE), Office of Fossil Energy and Carbon Management and The Norwegian Ministry for Petroleum and Energy make great contributions to mitigating climate change and are supportive of ION's technology. The Norwegian Ministry for Petroleum and Energy is also the majority owner of TCM.

Source : PRNewswire

BASFLaunchesfirstBiomassBalancePlasticAdditives

- New range of plastic additives contributes to the replacement of fossil feedstock with renewable raw materials according to a certified biomass balance approach
- Initial offerings include Irganox[®] 1010 BMBcert[™] and Irganox[®] 1076 BMBcert[™] antioxidants, certified by TÜV Nord according to ISCC PLUS
- Industry-first solution advances sustainable development of plastics

BASF announced the launch of the industry's first biomass balance offerings for plastic additives. The initial offerings, including Irganox® 1010 BM-Bcert™ and Irganox® 1076 FD BMBcert™, are certified by TÜV Nord for mass balance according to the International Sustainability and Carbon Certification (ISCC PLUS). These industry-first solutions support the use of renewable feedstock to replace fossil feedstock and help BASF's customers meet their sustainability targets.

The BMBcert offerings contribute to a reduction in fossil feedstock demand. At the beginning of the value chain, fossil-based raw material is replaced by ISCC certified bio-based feedstock and a corresponding amount is attributed to the product according to a mass balance approach. Via the attribution of these sustainably sourced renewable feedstocks, the product's cradle-to-gate

carbon footprint is significantly reduced

Continue on Page 47



AUTOMOBILES

GEORGIA TECH AND HYUNDAI MOTOR GROUP SIGN MOU FOR FUTURE MOBILITY COLLABORATION

- The partnership will focus on sustainable mobility, hydrogen economy, and workforce development
- Hyundai Motor Group is investing more than \$12 billion in EV manufacturing and battery production in Georgia
- Hyundai's economic impact in Georgia will be tens of billions of dollars in the years to come and will help create nearly 40,000 jobs
- Collaboration builds upon Hyundai • Motor Group's long history in Georgia

TLANTA, Sept. 19, 2023 /PRNews-Awire/ -- Georgia Tech and Hyundai Motor Group (the Group) today signed a memorandum of understanding to collaborate on research and applications to support the future of sustainable mobility, including developing a hydrogen economy, workforce development, and making cities smarter and more sustainable, among many other areas of cooperation.

The Group is investing \$12.6 billion in new dedicated electric vehicle and battery manufacturing facilities in Georgia. This includes the \$7.59 billion Hyundai Motor Group Metaplant America (HMGMA) site in Bryan County, Georgia that will create more than 8,500 direct jobs, and the \$5 billion battery manufacturing facility joint venture with SK On in Bartow County, Georgia that will employ approximately 3,500 people. The close proximity of these facilities to Georgia Tech was an important consideration in choosing the locations.

This collaboration builds upon the Group's long history in Georgia. The Kia Georgia assembly plant began vehicle production in 2009 and was established under the leadership of Honorary Chairman Mong-Koo Chung and Executive Chair Euisun Chung. University System of Georgia Chancellor Sonny Perdue was Governor of Georgia at the time of the Kia plant opening and also attended today's ceremony.

Also, a recent study by the Center for Automotive Research reveals that Hyundai Motor's automotive operations contributed \$20.1 billion and 190,000 jobs to the U.S. economy in 2021 alone. According to the study, Hyundai's investments in Georgia are expected to create nearly 40,000 jobs and \$4.6 billion in individual earnings every year.

"Like Georgia Tech, Hyundai is a global brand that is synonymous with quality, innovation, and a commitment to advancing technology to make a positive difference in the world. The more we have gotten to know each other, the more obvious the alignment of our values has become," said Georgia Tech President Ángel Cabrera. "I am grateful for the transformative investments Hyundai is making in our state, and I am proud that the Hyundai brand will feature prominently on our campus. I look forward to working with Hyundai leaders to deepen our partnership as we work to develop exceptional leaders and produce new ideas that will shape the automotive industry and advance mobility in the future."

"Georgia is like a second home to us," said Jay Chang, President and CEO, Hyundai Motor Company. "We are a mission-driven organization with a very compelling point of view about the future. We feel a great responsibility to contribute to a sustainable future in which all humankind can live safely and healthily while enjoying freedom of movement. On behalf of all of us at Hyundai Motor Group, we are thrilled to create a partnership with Georgia Tech that includes research and applications to support the future of sustainable mobility, hydrogen economy, workforce development, and smart cities, among many other areas of cooperation. This is the beginning of a partnership that will last for decades and is one of the reasons why we chose Georgia for our EV investments."

"Hyundai's investments in Georgia will create tens of thousands of jobs and bring tens of billions of dollars in economic impact for decades to come," said José Muñoz, President and Global COO of Hyundai Motor Company, and President and CEO of Hyundai and Genesis Motor North America. "Proximity to institutions like Georgia Tech was one of the many reasons Hyundai selected Georgia for our new EV manufacturing facility.

Imagine zero emissions hydrogen-powered vehicles here on campus, advanced





air mobility shuttling people to Hartsfield International Airport or riding hands-free and stress free in autonomous vehicles during rush hour on I-75 and I-85. Together Georgia Tech and Hyundai have the resources to fundamentally improve how people and goods move. We are thrilled to expand our relationship with Georgia Tech, which will include opportunities for student professional development and cooperative work programs."

"Globally, we are seeing an unprecedented transformation of the mobility sector as companies move to more sustainable and responsible transportation alternatives. Georgia stands at the forefront of that change," said GDEcD Commissioner Pat Wilson. "By placing a strategic focus on building and contributing to an ecosystem that supports sustainable mobility, Georgia continues to add to our industry-leading success, bringing the jobs of the future home to Georgians in every corner of the state. Congratulations to Georgia Tech, Hyundai Motor Group, and all of the partners we are celebrating today."

The elements of the Georgia Tech and Hyundai partnership include:

- Research and Innovation: Hyundai will collaborate with Georgia Tech on joint research and development programs focused on the future of sustainable mobility, including battery technology and expanding the hydrogen economy.
- Workforce Development: Georgia Tech and Hyundai will create technical training and leadership development programming for Hyundai employees and initiate engagement activities to stimulate interest in STEM degrees among students.
- Student Engagement: Hyundai will actively participate in career recruitment events at Georgia Tech and will create learning programs for both undergrad and graduate students.

Hyundai's partnership with Georgia Tech also includes field-naming recognition at Bobby Dodd Stadium, which is now known as Bobby Dodd Stadium at Hyundai Field.

The benefits of the partnership are wide-ranging and substantial for Georgia Tech and the state of Georgia. They include:

• A vital pathway for Georgia Tech to meet its stated goal of ex-

panding its stature as a leading research entity in the electrification of the automotive industry through its world-class hydrogen research.

- An opportunity for Georgia Tech to more broadly contribute to the state of Georgia's commitment as a hub for the production of electric vehicles.
- New revenue for Georgia Tech Athletics, which, within the ever-changing landscape of intercollegiate athletics, will be vital in providing student-athletes and teams with the resources needed to compete at the highest levels, both athletically and academically.

Source : PRNewswire

PERSTORP UNVEILS NEW DROP-IN REPLACEMENTS FOR A LOW-EMISSION FUTURE OF SYNTHETIC POLYOL ESTERS

Leading specialty chemicals innovator Perstorp has launched new grades for carboxylic acids which are now available with 100% renewable, traceable mass balanced content and the market's lowest product carbon footprint. Malmö September 14, 2023 - The new products, Valeric Acid Pro 100 and 2-Ethylhexanoic Acid Pro 100, represent the latest stride in Perstorp's mission towards becoming Finite Material



Neutral[™], heralding a significant shift in the industry's dependence on virgin fossil raw materials while allowing downstream industries to reduce Scope 3 emissions.

When considering the biogenic CO2 uptake1 absorbed by the renewable raw materials used, these products demonstrate a negative carbon footprint from the cradle to the Perstorp gate. Developed based on a traceable mass balance concept, Valeric Acid Pro 100 and 2-EHA Pro 100 are designed to minimize the carbon footprint2 throughout the value chain, supporting sustainable sourcing of renewable and recycled raw materials.

Valeric Acid Pro 100 and 2-EHA Pro 100, as well as all Perstorp's Pro-Environment offerings, bear the ISCC PLUS (International Sustainability & Carbon Certification) sustainability certification. This seal of approval attests that stringent sustainability standards are met, including the products, the mass balance methodology, and the product carbon footprint (PCF) calculations. Both products exhibit a negative cradleto-gate PCF value, aligned with Together for Sustainability methodology.

Together with Perstorp's portfolio of Pro-Environment Polyols (Neeture[™], Evyron[™], and Voxtar[™]) the debut of Valeric Acid Pro 100 and 2-EHA Pro 100 marks the inauguration of a comprehensive portfolio of Polyol Esters (POE) building blocks, positioning Perstorp as a sustainable solutions provider for businesses aspiring to lessen their reliance on virgin fossil raw materials and minimize their product or corporate carbon footprints.



"The synthetic lubricant industry is inherently a sustainable industry," says Dr.

Valentina Serra Holm, Perstorp's Vice President of Engineered Fluids. "The use of lubricants synthetic is making a positive impact by reducing the energy used and extending the lifetime

of parts. Now, in addition to sustainable applications, we can proudly offer a wide range of more sustainable building blocks for polyol esters."

By introducing Valeric Acid Pro 100 and 2-EHA Pro 100 to its Pro-Environment portfolio, Perstorp continues to demonstrate its steadfast commitment to a sustainable future. These Pro-Environment products match the performance and quality of their fossil counterparts but exhibit a superior environmental profile. By employing traceable mass balance, Perstorp helps to shift the feedstocks of the chemical industry to renewable and recycled sources, but without the need for long development lead-times. These drop-in solutions offer a seamless transition with the same quality and performance as the fossil-based products.

"Mass balance, with chemical and physical traceability, is a crucial methodology that contributes traceability, efficiency, accountability, compliance, and sustainability across industries and processes," says Elisa Swanson-Parbäck, Global Marketing Director for Sustainable Lubricants at Perstorp. "It enables our customers to accurately track materials and make informed decisions. Further on, it showcases our commitment,



long-term and short-term, to responsible practices as we can ensure our value chain partners that we apply a credible and transparent transition towards renewable raw materials."

Emphasizing transparency and traceability, the Traceable Mass Balance applies chemical and physical traceability principles. This ensures the product's progressive transition from fossil to fully renewable and/or recycled, marking a significant stride towards sustainability in the synthetic lubricants sector.

The launch of Valeric Acid Pro 100 and 2-EHA Pro 100 marks another significant milestone in Perstorp's quest to lead the industry's shift towards renewable and recycled raw materials. It reflects an exciting step towards future-proofing, gradually phasing out virgin fossil raw materials for a variety of applications, including synthetic oil in the aviation and automotive lubricants market segments.

Source : Press Release

TORAY AND HONDA START JOINTLY VALIDATING CHEMICAL NYLON 6 RECYCLING FOR AUTOMOTIVE **APPLICATIONS**



okyo, Japan, September 19, 2023 -Toray Industries, Inc., announced today it signed an agreement with Honda Motor Co., Ltd., to jointly develop a chemical recycling technology for glass-fiber reinforced nylon 6 parts recovered from end-of-life vehicles. The two have begun verifying this technology, which entails depolymerizing with subcritical water (see note) and regenerating the materials as caprolactam, a raw monomer.

The two companies focused on such subcritical water characteristics as its high permeability, dissolving power, and hydrolysis effect in resins in developing a technology that successfully depolymerizes nylon 6 with that water. Subcritical water is water at high temperatures and pressures. It is free of catalysts, additives do not affect it, and it can depolymerize nylon 6 in several dozen minutes to create high yields of raw monomer. Separating, refining, and repolymerizing that monomer makes it possible to regenerate nylon 6 that performs like a virgin material.

The Ministry of the Environment adopted this technology for a fiscal 2023 project to establish a decarbonized circular economy system, including to validate recycling systems for plastics and other resources. Toray and Honda look to employ that project to set up a pilot facility with a processing capacity of 500 metric tons annually of raw resin, conducting validation testing with it.

The first step with this work is to recycle used automotive plastic parts into the same automotive materials. The two companies will develop depolymerization and monomer separation and refining technologies by employing intake manifolds as raw materials for

engine intake system parts. They seek to apply these technologies for recycling chemicals in automotive resin parts by around 2027.

Down the track, they look to broaden the scope of their chemical recycling technology to encompass apparel, films,



and other non-automotive applications. They also envisage inviting other companies to take part in their effort and a set up a chemical recycling scheme for nylon 6 in Japan. This endeavor would help realization a circular economy and cut greenhouse gas emissions.

One goal of the Toray Group Sustainability Vision for 2050 is to contribute to a world in in resources are sustainably managed. Toray will keep pursuing research and development to contribute to a sustainable, circular economy and thereby realize its corporate philosophy of contributing to social progress by delivering new value while attaining sustainable growth.

Source : Toray

PPG INTRODUCES PPG SUSTAINABILITY CO₂NCEPT SYSTEM TO HELP AUTOMOTIVE BODY SHOPS REDUCE ENERGY, WASTE AND

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EMISSIONS IN REPAIR PROCESSES

PITTSBURGH, Sept. 19, 2023 – PPG (NYSE:PPG) today announced the launch of the PPG SUSTAINABILITY CO₂NCEPT[™] system, a suite of products, processes, digital tools and consulting services designed to help body shops reduce energy, waste and greenhouse gas emissions throughout the automotive repair process.

"Like many industries, there is immense pressure for body shops to reduce their environmental footprint and decrease energy use given the recent dramatic increase in energy costs," said Jerome Zamblera, PPG vice president, Automotive Refinish, Europe, Middle East and Africa (EMEA). "Through the launch of the PPG Sustainability CO₂NCEPT system, PPG recognizes an opportunity to better partner with customers and support the demand for sustainable solutions that improve energy efficiency and reduce carbon

emissions."

The PPG Sustainability CO₂N-CEPT offering includes:

• Consulting and training services, which can help body

shops identify the activities that consume the greatest energy and generate the most significant amount of carbon emissions. The PPG team will evaluate alternatives that could deliver lower emissions and generate potential cost savings for the shop through:

1 Millinger

- Spray booth efficiency
- Product selection
- Repair process improvements

- Air-drying primers and clearcoats that can reduce energy consumption by up to 65% compared to traditional oven-cured coatings.
- Primers applied via rollers and air dried, which offer energy savings of up to 95% by replacing a spray gun within a spray booth.
- Ultraviolet (UV)-cured primers for small repairs that can provide energy savings of up to 85% and shorter processing times.

PPG also offers innovative digital solutions to support customer sustainability, including:

- The PPG LINQ[™] end-to-end digital ecosystem, which can help body shops achieve a 15% productivity improvement compared to traditional repair methods.
- The PPG MOONWALK[™] automated paint mixing system, which can

reduce the carbon footprint from basecoat emissions by up to 9%. More precise measuring and the elimination of human error results in reduced paint consumption and emissions, and less wasted product.

PPG VISU-

ALIZID[™] software, which helps users find the best color variant from PPG's extensive color library when connected with PPG's camera-equipped spectrophotometers (PPG RAPIDMATCH[™] XI and PPG DIGIMATCH[™] tools). This digital solution eliminates the need for painters to use spray out panels to test color match, further eliminating waste.

Source : PPG



DRUG AND PHARMA -

EVEREST MEDICINES ANNOUNCES CHINA CENTER FOR DRUG EVALUATION OF NMPA RECOMMENDS PRIORITY REVIEW FOR CEFEPIME-TANIBORBACTAM FOR THE TREATMENT OF COMPLICATED URINARY TRACT INFECTIONS, INCLUDING PYELONEPHRITIS

SHANGHAI, Sept. 19, 2023 / PRNews-wire/ -- Everest Medicines (HKEX 1952.HK), a biopharmaceutical company focused on developing, manufacturing, and commercializing transformative pharmaceutical products and vaccines in Greater China and other parts of Asia, announced today that the Center for Drug Evaluation (CDE) of the China National Medical Products Administration (NMPA) has recommended Priority Review for cefepime-taniborbactam for the treatment of complicated urinary tract infections (cUTI), including pyelonephritis, based on the criteria of "innovative drugs for the prevention and treatment of major infectious diseases and rare diseases that meet urgent clinical needs."

"Currently, the clinical challenges from multi-drug resistant infections are severe. The recommendation of priority review by CDE for cefepime-taniborbactam un-

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derscores the important clinical value of the medicine. It shows that cefepime-taniborbactam has a clinical advantage to address urgent and unmet medical needs in China. We will work closely with the Regulatory Agency to bring this innovative medicine to Chinese patients as quickly as possible," said Rogers Yongqing Luo, Chief Executive Officer of Everest Medicines. "Our leading product in the infectious disease space XER-AVA® has commercially launched in China. Cefepime-taniborbactam will strengthen Everest's infectious disease portfolio, which is a key therapeutic area that will help drive our future growth."

Our partner Venatorx Pharmaceuticals announced in August that the U.S. Food and Drug Administration (FDA) accepted its New Drug Application (NDA) for cefepime-taniborbactam and granted Priority Review of the NDA with a Prescription Drug User Fee Act (PDUFA) target action date of Feb. 22, 2024. The cefepime-taniborbactam NDA filing was supported by results from the pivotal Phase 3 study, CERTAIN-1, evaluating the efficacy and safety of cefepime-taniborbactam compared to meropenem in adults with cUTI, including acute pyelonephritis. Cefepime-taniborbactam was superior to meropenem for the primary efficacy endpoint of composite microbiologic and clinical success at the Test of Cure (TOC) visit (Day 19-23) in the microbiological intent-to-treat (microITT) population. Cefepime-taniborbactam was well-tolerated and no new safety findings were identified.

Source : PRNewswire



The National Cancer Center (Pres-L ident: Hitoshi Nakagama, "NCC") and Asahi Kasei Corp. (President: Koshiro Kudo, "Asahi Kasei") have signed a joint research agreement to develop cellular immunotherapies utilizing the chimeric antigen receptor T cell (CAR-T cell1) format. This alliance will drive CAR-T cell pipelines established at National Cancer Center Research Institute (Director: Hiroyuki Mano) Division of Cancer Immunology (Chief: Hiroyoshi Nishikawa) towards clinical implementation targeting patients having T cell malignancies with unfavorable prognoses, and those having solid tumors that are resistant against standard immunotherapies.

NCC currently has three preclinical CAR-T cell pipelines to T cell malignances or solid tumors with definitive proof of concept data, one of which is under preparation for a first-in-human clinical trial. NCC has established procedures of vector production T cell expansion and analytical methods for the CAR-T cells. NCC will transfer its techniques to Asahi Kasei, which will work to establish the process of GMP/GCTP2 CAR-T cell production/qualification for clinical trials, and to further advance development for CDMO3 production in the future commercial phase. As a longer-term goal, the Asahi Kasei–NCC alliance aims to become a global hub for research, development, GMP/GCTP production, and supply of cellar therapy products.

The Asahi Kasei Group has a proven track record in the development and marketing of biopharmaceutical products, as well as manufacturing technologies for regenerative medicine products. Asahi Kasei will promote this joint research with NCC by leveraging its knowledge and experience, and contribute to the establishment of manufacturing technology for the practical application of CAR-T cell therapy.

- 1CAR-T cell (chimeric antigen receptor T cell). A T cell that is genetically modified to express CAR to redirect T cells to and attack tumors. Several types of CAR-T cell products are approved for B cell malignancies such as malignant lymphoma, acute lymphoblastic leukemia, and myeloma.
- 2GMP/GCTP (Good Manufacturing Practice/Good Gene, Cellular, and Tissue-based Products Manufacturing Practice). GMP/GCTP is a system for ensuring that products are consistently produced and controlled according to quality standards. Either investigational or commercialized CAR-T cell process must be produced and supplied under the GMP/GCTP condition.
- 3CDMO (Contract Development and Manufacturing Organization). A company or institute that supplies services in drug development and manufacturing for pharmaceutical companies including cell manufacturing and qualification of the drug.

Source : Asahi Kasei

SUN PHARMA AND PHARMAZZ INC. ENTER INTO LICENSING AGREEMENT FOR INTRODUCING

TYVALZI™ (SOVATEL-TIDE) IN INDIA

- Sovateltide is a first of its kind drug to treat acute cerebral ischemic stroke that can be administered up to 24 hours after the onset of symptoms
- India is the first global territory where Tyvalzi[™] (Sovateltide) is being introduced

umbai, India, September 14, 2023: Multur, Incur, Correctional Industries Limited (Reuters: SUN.BO, Bloomberg: SUNP IN, NSE: SUNPHARMA, BSE: 524715, "Sun Pharma" and includes its subsidiaries and/or associate companies) announced that one of its wholly-owned subsidiaries has entered into a license agreement with Pharmazz Inc., (Pharmazz), a U.S. based biopharmaceutical company to commercialise a first-in-class innovative drug, Tyvalzi™ (Sovateltide) in India. Developed by Pharmazz for potential global use, Sovateltide is indicated for treating cerebral ischemic stroke.

As per agreement terms, Sun Pharma is granted rights for marketing Sovateltide in India under the brand name Tyvalzi[™] (Sovateltide). Pharmazz will be entitled to upfront and milestone payments, including royalties.

Kirti Ganorkar, CEO – India Business, Sun Pharma said, "The Phase 3 clinical trial for Tyvalzi[™] conducted in India demonstrated statistically and clinically meaningful improvement in neurological outcomes in ischemic stroke. Tyvalzi[™] is a first-in-class innovative drug which can help improve the quality of life of stroke patients. The drug can be administered within 24 hours for the treatment of ischemic stroke. The current treatment options provide a narrow time window of 4-5 hours limiting its use in most patients."

Dr. B. S. Paul, a leading neuro-physician

at Dayanand Medical College & Hospital, Ludhiana, who was a part of the clinical trials of Tyvalzi[™] (Sovateltide), said, "No new drug other than rTPA has been approved for the treatment of stroke for more than two decades. The narrow time window of rTPA of 4.5 hours limits its use in a vast majority of patients with cerebral ischemic stroke. There is an urgent need for new therapies to treat stroke, the 2nd leading cause of mortality & morbidity worldwide. Sovateltide (TyvalziTM), a selective endothelin B receptor agonist, a new first-in-class drug recently approved for treating cerebral ischemic stroke, can be administered up to 24 hours post cerebral ischemic stroke. Sovateltide (TyvalziTM) produced statistically significant and clinically meaningful improvements in neurological outcomes at 90 days post-treatment in clinical trials as measured by the NIHSS, mRS, and B.I. scales. Sovateltide (TyvalziTM) is a neuronal progenitor cell therapy that promotes neurogenesis, angiogenesis, and synaptogenesis, thereby inducing neurovascular remodeling. I believe that Sovateltide (TyvalziTM) is an exciting new, approved, effective, and well-tolerated therapy for treating cerebral ischemic stroke patients."

Dr. Prof. Anil Gulati, M.D., Ph.D., inventor, CEO, and Chairman of the Board of Directors of Pharmazz, said: "It is a significant step for Pharmazz to partner with Sun Pharma, the largest pharmaceutical company in India. For patients with cerebral ischemic stroke, I believe Sun Pharma The global burden of disease project1 estimated the number of incident cases of stroke in India to be 1,175,778. In India, studies estimate that the incidence of stroke population varies from 116 to

163 per 100,000 population2 . Stroke is the fourth leading cause of death and the fifth leading cause of disability3 in India. By 2050, more than 80% of the predicted global burden of new strokes of 15 million will occur in low and middle-income countries.

Source : Sun Pharma



CHEMICAL TECHNOLOGY -

WANHUA CHEMICAL ATTENDED COATINGS TRENDS & TECHNOLOGY SUMMIT, SHOWCASING INNOVATIVE AND SUSTAINABLE SOLUTIONS

From September 6th to 8th, Wanhua Chemical and industry professionals were invited to exhibit at the Coatings Trends and Technology Summit (CTT).

The coatings industry is no exception in a world increasingly conscious of carbon footprints. The theme at the CTT revolved around green technology, and many companies are eagerly

seeking sustainable solutions. Wanhua Chemical has been at the forefront of this initiative, leveraging our clean energy infrastructure, avant-garde technologies, resilient supply chains, and effective service.

Spotlight on our Green Innovations:

High-Quality Sustainable Products:

The demand for eco-friendly features, such as water-based, high-solid, and solvent-free products, is rising. In response, Wanhua introduced our innovative curing agents (HT 300, 400, 500) suitable for low-VOC and high-solid systems. These curing agents provide superior

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performance in industrial and architectural coatings by elevating features such as low viscosity, excellent compatibility, and extended pot life. They will significantly contribute to carbon emission and VOC reduction while enhancing the service life and promoting the sustainable evolution of coating sectors.

Diverse Product Line-Up

Our commitment to green solutions is reflected in our expansive product range. Wanhua Chemical has introduced a diversified water-based product line-up addressing eco-friendly and biobased material solutions. During CTT, we have underlined our acrylic polyol Archsol[®], Antkote[®], and water-dispersible isocyanate Aquolin[®] product series for 2K waterborne polyurethane floor-

ing and metal coatings. In addition, we have showcased our modified PUD series, including Wantipro[®], Lacper[®], Leasys[®], and Crysol[®] for 1K polyurethane coatings, finding extensive applications in concrete, wood, metal, and plastic substrates.

Looking ahead, Wanhua Chemical remains steadfast in our commitment to leveraging advanced technology in producing environmentally conscious, high-quality coating raw materials. We are dedicated to fostering a sustainable future for the global community.

Source : Wanhua

NEW COMPOUNDS FOR DRINKING WATER AND HOT WATER



APPLICATIONS AS WELL AS TRENDSETTING TPE SOLUTIONS THAT CONTAIN HIGH PROPORTIONS OF BIO-BASED AND RECYCLED MATERIALS

A t Fakuma 2023 held from October 17 to 21 at Friedrichshafen Exhibition Center, KRAIBURG TPE will put the spot on its leading competence in the field of thermoplastic elastomers (TPEs). The product innovations presented at booth 5303 in hall B5 will fo-



cus on a series of new TPE compounds for sophisticated drinking water and hot water applications. As part of its expanded line of circular products, the manufacturer will also be showcasing several materials that contain high proportions of bio-based and recycled raw materials of up to 80%.

"Product reliability, sustainability and efficiency are the core requirements of our customers in the plastics industry. We are determined to meet these requirements by providing TPE solutions that set new standards with regard to high performance, cost-effective processing and exemplary environmental balance," says Oliver Zintner, CEO at



KRAIBURG. "Our appearance at this year's trade fair for plastics processing in Friedrichshafen will therefore focus on trendsetting TPE solutions, which also highlight our industry-leading engineering competence, along with the versatility of our materials technology." KRAIBURG TPE will be showcasing the following four groundbreaking TPE developments as highlights of its appearance at Fakuma 2023:

- THERMOLAST[®] DW H2, a series of new, plasticizer-free TPE compounds for sanitary and drinking water tubes and hoses that comply with the tightened DTW-BWGL standard (mandatory from March 2025) for organic materials in contact with drinking water. Available in five hardness degrees from 70 Shore A to 40 Shore D, they are suitable for low-cost processing on existing extruder lines for polyolefins, provide good adhesion to PP and ensure smooth surfaces with high resistance to the growth of microorganisms in accordance with DVGW W270. The range of suitable applications includes in particular shower tubes, pressure hoses and food hoses as well as supply tubing in dishwashers and washing machines.
- New Hot Water TPEs for hot water applications compliant with the KTW-BWGL standard, which are used in the environment of frequently changing water temperatures, such as seals and showerheads. As first non-cross-linking TPEs in this market segment, they also facilitate processing by their increased flowability and easy ejection. They also feature good adhesion to PP and PE as well as improved compression set at higher temperatures. KRAIBURG TPE expects this innovative materials technology for applications in contact with drinking water to be finally certified by the end of 2023.
- Second and third generation biobased TPEs with a proportion of renewable raw materials of up to 71%, which are not in competition with

the production of food or animal feed. The compounds expand KRA-IBURG TPE's existing portfolio of sustainable materials for applications where manufacturers and processing companies are increasingly looking for materials solutions that significantly reduce their carbon footprint.

• TPEs with higher proportions of recycled materials of up to 80% from postindustrial and/or post-consumer waste streams. Recycling Content TPEs provide an attractive environmental balance. They can be used universally and excel with high adhesive strength in multicomponent compounds with plastics such as PA, PC/ABS or PP.

Source : Press Release

TORAY AND HONDA START JOINTLY VALIDATING CHEMICAL NYLON 6 RECYCLING FOR AUTOMOTIVE APPLICATIONS

Tokyo, Japan, September 19, 2023 – Toray Industries, Inc., announced today it signed an agreement with Honda Motor Co., Ltd., to jointly develop a chemical recycling technology for glass-fiber reinforced nylon 6 parts recovered from end-of-life vehicles. The two have begun verifying this technology, which entails depolymerizing with subcritical water (see note) and regenerating the materials as caprolactam, a raw monomer.

The two companies focused on such subcritical water characteristics as its high permeability, dissolving power , and hydrolysis effect in resins in developing a technology that successfully depolymerizes nylon 6 with that water. Subcritical water is water at high temperatures and pressures. It is free of catalysts, additives do not affect it, and it can depolymerize nylon 6 in several dozen minutes to create high yields of raw monomer. Separating, refining, and repolymerizing that monomer makes it possible to regenerate nylon 6 that performs like a virgin material.

The Ministry of the Environment adopted this technology for a fiscal 2023 project to establish a decarbonized circular economy system, including to validate recycling systems for plastics and other resources. Toray and Honda look to employ that project to set up a pilot facility with a processing capacity of 500 metric tons annually of raw resin, conducting validation testing with it.

The first step with this work is to recycle used automotive plastic parts into the same automotive materials. The two companies will develop depolymerization and monomer separation and refining technologies by employing intake manifolds as raw materials for engine intake system parts. They seek to apply these technologies for recycling chemicals in automotive resin parts by around 2027.

Down the track, they look to broaden the scope of their chemical recycling technology to encompass apparel, films, and other non-automotive applications. They also envisage inviting other companies to take part in their effort and a set up a chemical recycling scheme for nylon 6 in Japan. This endeavor would help realization a circular economy and cut greenhouse gas emissions.

One goal of the Toray Group Sustainability Vision for 2050 is to contribute to a world in in resources are sustainably managed. Toray will keep pursuing research and development to contribute to a sustainable, circular economy and thereby realize its corporate philosophy of contributing to social progress by delivering new value while attaining sustainable growth. Source : Toray



NEW PRODUCTS .

INTRODUCING A MODERN EMOTION-BASED APPROACH TO SCENT: HIERARCHY OF NEEDS[®] WATER FRAGRANCE OIL

NEW YORK, Sept. 19, 2023 / PRNewswire/ -- The Scent Guru Group, founded by scent creator Ruth Sutcliffe, is introducing a revolutionary concept in perfumery, one that imagines scent as an expression of each of Maslow's timeless 'hierarchy of needs'. Maslow's original 1943 psychological breakthrough describes human behavior as a set of ever increasing motivations starting with physical need and escalating to emotional desires. Maslow's Hierarchy is: i) physical (like water) ii) safety needs iii) love & belonging iv) esteem vi) self-actualization. The Scent Guru will sequentially release 5 Hierarchy of Needs[®] fragrances, begin-ning with HIERARCHY OF NEEDS[®] WATER. Each is universal in nature. similarly to Maslow's needs, which are intrinsic to all humans, regardless of gender, education, sexual orientation or cultural background.

Scent Therapy - Hierarchy of Needs® was inspired by Sutcliffe's own midlife journey which reconnected her to scent's natural powers to give, inspire, heal and nurture humans with. Hierarchy of Needs® WATER symbolizes free emotional expression via a fragrance that depicts free-flowing, crystal clear waters. A remarkable scent, WATER opens with sparkling Italian Lemon and Baies Rose notes that then gently dive into a watery floral mid-stream, livened by herbaceous juniper and lavender, banked by musk and dappled wood sinuous currents.

- Presented in a 9 ml/.30 Fl. Oz. travel-friendly, easy to use Rollerball
- Also available in a portable, re-chargeable Scent Diffuser form, for spaces up to 500 sq feet
- Conscientious packaging
- No-Alcohol formulation
- Made in the USA
- MSRP = \$28.00 at www.thescentgurugroup.com and select boutique retailers.

Source : PRNewswire

VASELINE® INTRODUCES ITS MOST PREMIUM LINE YET, CREATED TO ADDRESS THE NEEDS OF BLACK & BROWN SKIN

ENGLEWOOD CLIFFS, N.J., Sept. 18, 2023 /PRNewswire/ -- Vaseline introduces Vaseline[®] Radiant X[™], a new body care range formulated with premium skin care ingredients traditionally used for your face, created to specifically address the needs and concerns of Black and Brown skin including moisture imbalance, dark spots, and uneven skin tone.

As the go-to product for healing skin for many generations, Vaseline[®] believes everyone should have access to healthy-looking, radiant skin, but there are few brands that specifically cater to the needs and beauty benefits for melanin-rich skin, and often many skincare lines treat all skin the same.

By working with dermatologists who specialize in caring for and treating skin of color to develop the line, Vaseline led with a scientific approach to curate



products made with effective ingredients that deliver skin solutions not traditionally found in body and especially at mass retail.

At the heart of the new line of products lies Vaseline® Radiant X[™] Even Nourishing Tone Body Lotion that includes 1% niacinamide, a form of Vitamin B3, clinically proven to visibly reduce dark spots and even skin tone in just two weeks. The lotion also includes Unilever's proprietary ultra-hydrating lipids to help skin replenish its own ceramides and foster a more resilient, healthier skin barrier. Using this technology as a building block to nourish skin allows active ingredients to penetrate deeper for better delivery of benefits and up to 72 hours of moisture.



"Through our longstanding work to improve access to equitable skin care, Vaseline knows the key to healthy-looking skin is not a one-size-fits-all approach. Yet, many products on the market treat all skin the same," said Cara Sabin, President Beauty & Wellbeing at Unilever North America. "This is the insight that inspired Vaseline® Radiant X[™]. This new line leads with a scientific approach, incorporating the best of science and beauty benefits to effectively address specific skin concerns in the melanin-rich community, who often go underserved."

Vaseline knows radiance isn't a quick fix. Radiance is a science. The new premium line features four science-driven products:

- Even Tone Nourishing Body Lotion: This non-greasy & fast-absorbing body lotion is formulated with 1% niacinamide and is clinically proven to visibly reduce dark spots and even skin tone in just two weeks.
- Deep Nourishment Body Cream: This body cream is enriched with 100% shea butter to provide intense moisturization and 72 hours of moisture, leaving you with soft, smooth, and radiant skin.
- **Replenishing Hydrating Body Oil:** This quick-absorbing and non-sticky body oil is enriched with 1% lipids to help soften and revive dull skin.

• **Deep Nourishment Hand Butter:** This hand butter is made with 100% shea butter to provide intense moisturization without feeling greasy, providing silky soft, nourished, and radiant hands.

To accompany the new product line, Vaseline is also kicking off Two Weeks to Radiance – a launch campaign that touts the Vaseline® Radiant X[™] Even Tone Nourishing Body Lotion's clinically proven claim to visibly reduce dark spots and even skin tone in just two weeks. The program will consist of radiant skin care content and social giveaways. The brand will also be transforming the Malt House in Harlem, New York to Radiance House – an immersive experience that brings to life the science of radiance.

New Vaseline[®] Radiant X[™] is now available at food, drug and mass retailers nationwide. To learn more, please visit www.Vaseline.com/ and follow Vaseline on Instagram, Twitter, and Facebook.

Source : PRNewswire

LE DOMAINE SKINCARE ADDS TO ITS GROWING LIST OF ACCOLADES

NEW YORK, Sept. 19, 2023 / PRNewswire/ -- In its debut year, LE DOMAINE, the luxury skincare collaboration between actor Brad Pitt and Famille Perrin, stewards of the Rhône Valley's Château de Beaucastel Vineyard, has amassed an impressive collection of accolades. The latest: a Women's Health 2023 Skincare Award for "Best Hydrating Serum."

Each year, the editorial team at Women's Health enlists a judging panel of dermatologists, aestheticians, and other skincare experts to select the top products across a broad range of categories for the Women's Health Skincare Awards. The full list of winners, including LE DOMAINE's The Serum, was revealed earlier today, September 19, on Women-sHealthmag.com.

Other recent honors awarded to LE DOMAINE: In April, the Robb Report voted LE DOMAINE "Best New Luxury Skincare Brand" in its 2023 Grooming Awards. In June, ELLE designated The Serum by LE DOMAINE "Best Natural Anti-Aging Serum." And LE DOMAINE The Cream was chosen by both GQ and Harper's Bazaar editors as one of the best new skincare products for men.

Google searches for LE DOMAINE have also spiked 183.3 percent in the past year—and the brand was just designated one of the top ten emerging beauty brands by Spate Date, based on yearover-year U.S. Google search growth.

Created with equal emphasis on science and nature, LE DOMAINE skincare is formulated with grape-derived ingredients from the Château de Beaucastel, including soothing grape water and two exclusive patented active ingredients, GSM10 ° and ProGR3 °. GSM10, an anti-aging compound developed



by Pierre-Louis Teissedre, a professor at the University of Bordeaux Institute of Vine and Wine Science, uses upcycled Grenache seeds and the skin of Syrah and Mourvèdre grapes. ProGR3, created by French scientist

and researcher Nicolas Levy, features resveratrol, a potent antioxidant derived from Beaucastel grapevines. The efficacy of these ingredients has been rigorously studied and clinically proven to leave skin softer, more hydrated, and more rejuvenated.

Source : Le Domaine Skincare



MERGERS AND ACQUISITIONS

SABIC'S LNP™ STAT-LOY[™] COMPOUND IS **USED BY INTELLINIUM AS ENABLER FOR** THEIR NEXT-GEN ATEX SMART PERSONAL PROTECTIVE **EQUIPMENT**

Bergen op Zoom, The Netherlands, September 19, 2023 - SABIC, a global leader in innovative material solutions, and INTELLINIUM, a leading provider of advanced safety solutions, are pleased to announce a successful collaboration that led to the development of ATEX-certified Personal Protective Equipment (PPE) utilizing SAB-IC'S LNP[™] STAT-LOY[™] compound.

By combining SABIC's expertise in high-performance materials with IN-TELLINIUM's deep understanding of safety requirements, a breakthrough in ATEX PPE development has been achieved. Representing a significant milestone in the advancement of personal safety technology.

The LNP STAT-LOY compound addresses ATEX's Intrinsic Safety requirements for electrical conductivity while giving INTELLINIUM the freedom regarding the choice of color and the desirable soft-touch haptic characteristic. The compound, designed with ATEX requirements in mind as per EN IEC 60079-0:2018 and EN 60079-11:2012, provides a surface resistivity of 1 G Ω – 100 G Ω (1E9 – 1E11 Ω) to address the ATEX Directive, while allowing a high transmission of electrical signals as requested by INTELLINIUM for embedded telecom technologies such as 4G

LTE-M, 4G NB-IoT, LoRaWAN, Bluetooth, GPS and NFC.

"We are delighted to be able

"The successful develop-

ment of an ATEX-certified

Smart PPE using our LNP

STAT-LOY compound ex-

emplifies our commitment

to assisting customers with

ATEX regulatory compli-

ance by proactively devel-

materials. Our new LNP grades feature optimized

oping specialized anti-static

formulations that offer a re-

markable set of properties

pative requirements, such

been subjected to rigorous

testing by an independent

Mr. Mathieu Destrian, CEO of INTEL-

LINIUM, added, "We are proud to be

third-party laboratory."

on top of the static dissi-

as colorability, and have

to support **INTEL-**LINIUM on this innovative project," said Joshua Chiaw, Director, Business Management, LNP & NO-**RYL**, Specialties, SABIC.



able to work with SABIC's Specialties business in developing state-of-the-art ATEX Smart PPE solutions. By combining our expertise in safety engineering

with their advanced materials, we are delivering products that set new standards in protecting workers in explosive atmospheres."

The collaboration between SABIC and INTELLINIUM led to a remarkable technological achievement, show-

casing their joint dedication to creation of intrinsically safe products.

Source : Press Release

LG CHEM AND HUAYOU **COBALT TO JOINTLY BUILD ELECTRIC VEHICLE BATTERY MATERIAL FACTORY IN MOROCCO**

n September 24th, LG Chem, a South Korean chemical company, announced a partnership with Huayou Cobalt to establish a joint venture for the construction of an electric vehicle battery material factory in Morocco. The factory is scheduled to commence operations in 2026 and aims to produce 50,000 metric tons of lithium iron phosphate cathode materials annually.

LG Chem stated that the lithium iron phosphate cathode materials produced at the Moroccan factory will be supplied to the North American market and will benefit from subsidies under the U.S.





Inflation Reduction Act. The company also disclosed an additional investment plan in collaboration with Huayou Cobalt to build a lithium conversion plant in Morocco, with the goal of commencing mass production by 2025 and achieving an annual capacity of 52,000 metric tons of lithium.

Furthermore, LG Chem announced its intention to construct a precursor plant in Indonesia. This move aligns with the company's strategic plans to expand its presence in the rapidly growing electric vehicle battery market.

The joint venture between LG Chem and Huayou Cobalt signifies their commitment to meeting the increasing demand for electric vehicle battery materials. By leveraging each other's expertise and resources, the companies aim to establish a strong foothold in the global market and contribute to the advancement of sustainable transportation.

As the electric vehicle industry continues to grow, partnerships and investments in battery material production facilities are crucial to ensure a stable supply chain and support the widespread adoption of electric vehicles worldwide. LG Chem's initiatives in Morocco and Indonesia demonstrate its proactive approach to addressing market demands and positioning itself as a key player in the evolving automotive landscape.

In conclusion, LG Chem's collaboration with Huayou Cobalt in the establishment of a battery material factory in Morocco signifies a significant step towards meeting the growing demand for electric vehicle batteries. The company's strategic investments and partnerships reflect its commitment to sustainable mobility and its efforts to position itself at the forefront of the global electric vehicle market.

Source : ECHEMI

DANIMER SCIENTIFIC AND CHEVRON PHILLIPS CHEMICAL TO COLLABORATE TO MAKE BIODEGRADABLE PLASTIC PRODUCTS

Chevron Phillips Chemical is expanding its collaboration with Georgia-based bioplastics company Danimer Scientific to explore development and

commercialization of high-volume biodegradable plastic products using Danimer's Rinnovo[™] polymers via CPChem's loop slurry reactor process at its Bartlesville, Okla. facility.

Danimer is a pioneer in creating renewable and sustainable biopolymers, which have helped create plastic products that are biodegradable and compostable.

Rinnovo[™] is a type of polyhydroxyalkanoate (PHA) synthesized from lactones produced using Danimer's proprietary Novo22[™] catalyst technology, which can be used in the production of biodegradable alternatives to traditional plastics.

The collaboration expands on Danimer and CPChem's



previously announced agreement, in which Danimer is evaluating the use of CPChem's loop slurry reactor design to develop a continuous reactor system in the manufacturing process for Rinnovo[™].

"Our business relationship with CP-Chem continues to yield results, and we're excited for the further opportunities that lie ahead," said Stephen E. Croskrey, chief executive officer of Danimer. "CPChem's Research and Technology lab in Bartlesville, Okla., is a premier facility staffed with world-class talent, which we believe will accelerate the path toward adoption of Rinnovo[™] materials in high-volume applications that will assist in lowering the cost to serve key markets."

Opened in 1950 by Phillips 66, CP-



Chem's Bartlesville facility contains firstclass research equipment allowing for rapid testing products of across various processing conditions.

Additionally, the facility's testing and analytical capabilities provide a more rapid feedback loop, accelerating the development and optimization of resin formulations.

"We continue to be excited about the potential of our MarTECH[®] process technology and related collaborations to advance Danimer's Rinnovo[™], another CPChem initiative that can help accelerate change for a more sustainable future," said Venki Chandrashekar, CP-Chem Vice President of Research and Technology.

Source : Chevron Phillips Chemical

INTERNATIONAL NEWS

VERDAGY TO MANUFACTURE HYDROGEN ELECTROLYZERS IN ITS NEW ADVANCED SILICON VALLEY FACILITY

MOSS LANDING, Calif., Sept. 19, 2023 /PRNewswire/ -- Verdagy, a pioneer in advanced water electrolysis electrolyzer technologies for largescale industrial applications, today announced its new facility opening in Newark, California, with more than 100,000 sq. ft. of advanced manufacturing space.

Verdagy's Silicon Valley factory will be the first to manufacture advanced water electrolyzers in large volumes in the United States. The commencement of operations at Verdagy's highly-automated manufacturing facility will start in Q1 2024. Verdagy expects to double the total number of its employees by next summer to support its expansion and the operation of this new, state-of-theart facility.

Verdagy's strategic focus on optimizing manufacturing is a key factor in becoming a leader in the scaling of the green hydrogen industry. Through development of advanced manufacturing, cost reductions, and significant product innovations, Verdagy is deploying a scalable manufacturing design that puts the company on track to achieve the Department of Energy's goal of \$2/kg of levelized cost of hydrogen by 2026.

Verdagy's customers are in heavy industries such as chemicals, ammonia/ fertilizer, steel, and e-fuels which all re-

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quire large amounts of green hydrogen. "Our new Silicon Valley manufacturing facility will accelerate the production and cost reduction of our eDynamic* 20 megawatt electrolyzer module, which is the basic building block for delivering larger, gigawatt-scale plants," said Marty Neese, Verdagy CEO.



The decision to expand Verdagy's manufacturing capabilities in California comes at a time when the state is prioritizing the development of its hydrogen economy and becoming a federally funded hydrogen hub, as outlined in Governor Newsom's Hydrogen Market Development Strategy.

"We are focused on building an entire renewable hydrogen ecosystem in California to achieve our climate goals - including the crucial step of manufacturing electrolyzers," said Dee Dee Myers, Senior Advisor to Governor Newsom and Director of the Governor's Office of Business and **Economic Development.** "Verdagy's decision to expand their footprint here reflects California's unique strength in creating new markets, enabling the cre-

istential challenges with the istential challenges with the technology of the future." Last month, Verdagy closed a \$73-million Series P funding round as lad by

Last month, verdagy closed a \$75-million Series B funding round, co-led by Temasek and Shell Ventures. The new funding enables Verdagy to accelerate the launch and commercialization of its eDynamic 20 megawatt electrolyzer module, which will serve as a fundamental unit to future systems at the 200 megawatt scale and beyond.

ation of clean energy jobs

while solving our most ex-

The company's goal is to design a factory that will serve as the basis for even larger scale production facilities that will be developed in other locations to support Verdagy's rapid expansion. The company's existing Moss Landing, CA location will remain focused on advanced research and development, and commercial pilot-plant operations to support Verdagy's customer needs in the future and continue to deliver technology that produces green hydrogen at the industry's lowest cost.

Source : PRNewswire

DOW LAUNCHES BIO-BASED CIRCULAR PROPYLENE GLYCOL SOLUTIONS IN EUROPE

HORGEN, Switzerland – September 21, 2023 – Dow (NYSE: DOW) today launched a new range of propylene glycol (PG) solutions featuring alternative – lower carbon, bio-based and circular – feedstocks in Europe. Customers can now deliver end-products to a broad range of industries, such as pharmaceutical, agricultural, and food, with third-party validated sustainability



benefits due to a mass balance approach. This mass balance approach traces the flow of sustainable raw materials used to manufacture PG through a complex value chain and attributes it based on verifiable bookkeeping; an approach that has received ISCC PLUS certification.

"We recognize demand has increased for the use of renewable materials to reduce carbon and enable circularity. By applying our low carbon, bio-based, and advanced recycling technologies, we are making this a reality for PG. Our customers will benefit from the same high-quality performance with a more sustainable material," said Andrew Jones, global business director, Dow CAV & POPG.

Offering sustainable PG solutions

Using innovative technologies, three new sustainable propylene glycol product lines will now be available in Europe and certified through ISCC PLUS:

- Propylene Glycol RDC featuring Decarbia[™] reduced carbon solutions from renewable energy sources*
- Propylene Glycol REN featuring Ecolibrium[™] bio-based technology from 2nd generation bio-based raw material
- Propylene Glycol CIR featuring Renuva™ recycled content from postconsumer waste streams

PG RDC, PG REN and PG CIR are suitable for a broad range of applications across industries as diverse as agricultural, pharmaceutical, cosmetics, textile and food. Over the coming months, Dow intends to launch equivalent products in other regions of the world.

Tracing sustainable materials through the value chain

Dow continues to implement the use of alternative feedstocks using the mass balance approach. Independent, external verification is a key part of the chain of custody method, which lies at the heart of this approach. Through verifiable bookkeeping and without changing the production process, it is possible to trace and attribute the flow of sustainable materials through complex value chains.

ISCC is a world leading international certification standard for fully traceable and environmentally, socially and economically sustainable supply chains. Within Europe, the propylene glycol plant in Stade, Germany, has achieved this highly regarded third-party qualification.

This latest development is part of Dow's accelerated efforts to incorporate sustainability into every step of a product's lifecycle as it progresses on its journey to a low-carbon and circular future.

Discover more about Dow propylene glycol solutions.

*Source : Dow calculation of Product Carbon Footprint "Cradle to Dow Gate" following ISO 14044/67

NOURYON'S 9 MANUFACTURING SITES OPERATE ON RENEWABLE ENERGY

Nouryon, a global specialty chemicals leader, announced that its nine manufacturing sites in Brazil are now powered with electricity solely from renewable energy sources, helping to reduce greenhouse gas emissions and transition to a low-carbon economy. Nouryon has 60 manufacturing site around the world with nine in Brazil, which represent 25 percent of the company's total electricity usage. This achievement is part of the Company's ongoing commitment to sustainability and reducing its carbon footprint.

Nouryon's dedication to sustainability extends beyond our products and processes; it encompasses our entire manufacturing network," said Eduardo Nardinelli, Senior Vice President, South America & Global Carbon Business Leader at Nourvon. "These initiatives demonstrate our commitment to reducing our environmental impact while enhancing our customers' ability to achieve their sustainability goals."

As part of its long-term carbon management strategy, Nouryon is continuing to explore opportunities to transition other sites in its global manufacturing network to electricity from renewable sources as well.

In 2021, Nouryon achieved carbon neutrality1 at five sites in Brazil operated by Nouryon (Imperatriz, Eunápolis, Três Lagoas (2) and Jacareí), as part of the company's Integrated Manufacturing Model, offering on-location sodium chlorate and/or chlorine dioxide production.

Source : Indian Chemical News



News Round Up

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by up to 60 percent, compared to the global average product carbon footprint of conventional grades.

The certified additives thus contribute to sustainable development by saving fossil resources, reducing greenhouse gas emissions, and advancing the use of renewable feedstock. This unique solution enables customers to differentiate their products from the competition and helps them achieve their sustainability goals; all without compromising on performance and quality.

Irganox[®] 1010 BMBcert[™] and Irganox 1076 FD BMBcert are drop-in replacements for Irganox 1010 and Irganox 1076. These BMBcert offerings are identical to the conventional grades in performance, quality, and product stewardship and regulatory aspects. As a result, customers do not need to requalify the new additives or reformulate their products.

"By leveraging BASF's highly integrated global production network of interconnected sites and plants, we are able to produce these industry-first, low carbon footprint, dropin solutions with the same performance characteristics," said Joerg Bentlage, Head of Global Product Management, Plastic Additives, BASF. "As we advance our own journey to a more circular economy, we aim to drive a sustainable transformation towards renewable feedstock within the industries we serve through innovative and strategic

customer partnerships."

Irganox 1010 BMBcert and Irganox 1076 FD BMBcert will initially be produced at BASF's site in Kaisten, Switzerland, with additional availability of Irganox 1010 FF BMBcert and Irganox 1076 FD BMBcert from McIntosh, USA in early 2024.

BASF is the leading innovative global partner for plastic additives and is focused on aligning with customer sustainability goals. BMBcert[™] additives are a part of the VALERAS[®] portfolio to create new value for plastics. BASF will continue to drive sustainable innovation in the plastic additives industry by addressing transformation topics such as climate change action.

ISCC PLUS is an international certification program that ensures the chain of custody along the value chain from feedstock to the final product.

Source : BASF

The Mitsubishi Chemical Group Introduces BioPBS, a Bio-Based Compostable Polymer, in EN TEA Teabag Pouches

TOKYO, September 20, 2023—The Mitsubishi Chemical Group (the MCG Group) is excited to announce the incorporation of its cutting-edge biobased compostable polymer, BioPBS[™], in the sealant layer and zipper closure of the freshly redesigned pouches for EN TEA's teabags. These upgraded pouches will be available to consumers starting September 20, 2023. BioPBS[™] is a bio-based compostable polymer. It undergoes natural decomposition by microorganisms into water and carbon dioxide. Renowned for its exceptional

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low-temperature heat sealability and flexibility, BioPBS[™] has found extensive applications, primarily as a packaging material for food products and more.

EN TEA is a tea brand grounded in the philosophy of "beautiful tea", emphasizing the harmony of people and things surrounding tea. Its product range is meticulously developed, produced and processed from carefully selected tea leaves sourced from across the country. Beyond the sealant layer and zipper closure, EN TEA's pouches, including the barrier layer, adhesives, and even the teabags nestled within, are composed of compostable materials.

As a specialty materials group dedicated to offering innovative solutions, the MCG Group is committed to delivering high-value-added products like BioPBS[™] to drive the realization of a sustainable society.

Source : Mitsubishi



OQ Chemicals Leads the Way for Eco-Friendly EU Ecolabel-Approved Lubricants with Oxlube L7-NPG

 $\mathbf{F}^{\mathrm{ormulators}}$ can now manufacture environmentally acceptable lubricants (EALs) and streamline their EU Ecolabel certification process with OQ Chemicals' lubricant base oil, Oxlube L7-NPG. Recently added to the Lubricant Substance Classification List (LuSC), this product aligns with stringent EU Ecolabel criteria. Oxlube L7-NPG, a low viscosity ester, is aptly suited for cooling and lubricating, including applications such as metal working and lubricants compliant with the Vessel General Permit (VGP).

Svea Meuser, Global Marketing Director Acids & Esters at OQ Chemicals, highlights the critical need for environmentally acceptable lubricants: "In many lubricant and cooling applications like marine, agricultural, forestry, and metalworking fluids, there's a potential for lubricants to enter the environment. For these sensitive areas, it's crucial that lubricants are environmentally acceptable. We've extensively tested our Oxlube L7-NPG for eco-toxicity. It's readily biodegradable and not harmful to aquatic ecosystems, and its maximum allowable

treatment rates aren't constrained by biodegradation or aquatic toxicity limits. This makes Oxlube L7-NPG an ideal base oil for EU Ecolabel compliant lubricant formulations."

"We are pleased that Oxlube L7-NPG is now certified under the stringent LuSC list criteria. It demonstrates our continued commitment to our customers as we provide them with essential, certified building blocks that enable them to economically address the rapidly growing demand for sustainable and eco-friendly products," added Dr. Ina Werxhausen, Director Sustainability & Corporate Communications at OQ Chemicals.

Source : Indian Chemical News

Tongde Chemical Advances Construction of Integrated Production Line for Bio-Degradable Plastics and Raw Materials

Tongde Chemical, a wholly-owned subsidiary of Tongde Group, is currently undertaking a project to construct an integrated production line with an annual capacity of 60,000 metric tons of bio-based fully degradable plastics (PBAT) and 240,000 metric tons of 1,4-butanediol (BDO), the raw material for PBAT. The overall construction progress of the project has surpassed 80%, with the aim of achieving trial production before the end of this year.

^{II}Bio-degradable plastics, as an emerg-

ing industry with significant economic and low-carbon ecological significance, are currently a hot topic for

global research and development and promotion. We believe there are great market opportunities," said Zhang Yunsheng, the founder of Tongde Chemical. "In recent years, the company has actively planned for transformation and upgrading, targeting new energy, new materials, and other business sectors, ultimately choosing degradable materials."

PBAT, as a fully bio-degradable plastic, has a wide range of applications including supermarket shopping bags, takeaway food containers, agricultural mulching films, and biomedical products. With the introduction of plastic restrictions and bans, along with the expansion of the green consumption market, the use of PBAT as a substitute for traditional plastic materials has become one of the most effective methods to eliminate "white pollution." BDO, on the other hand, is an important organic and fine chemical raw material and one of the main production materials for PBAT.

"This project integrates the world's most advanced process equipment and digital intelligent man-



ufacturing technology, achieving world-leading levels in terms of overall process, product composition, energy conservation, environmental protection, and operational efficiency," Zhang Yunsheng added.

The project construction has also brought certain financial pressure to

Tongde Chemical, and the advantages of capital market financing channels have been demonstrated. In July of this year, the company's refinancing application received approval from the China Securities Regulatory Commission. The company plans to raise funds of no less than 60.3 million yuan and no more than 24.1 million yuan, which will be used entirely to repay bank loans after deducting issuance expenses.

In conclusion, Tongde Chemical's project to establish an integrated production line for PBAT and BDO showcases its commitment to the development of the bio-degradable plastics industry. The project's advancement in advanced technology and digital manufacturing demonstrates the company's dedication to achieving world-leading standards. Tongde Chemical's efforts to secure additional funding through the capital market highlight its determination to overcome financial challenges and ensure the successful completion of the project.

Source : ECHEMI

Competition and Market Dynamics in the Chinese Automotive Interior Coating Industry

Introduction: The automotive interi-or coating industry in China operates in a competitive landscape driven by stringent qualifications and varying standards. Car manufacturers require certification before sourcing from their primary suppliers, leading to high qualification requirements. Additionally, there is a significant price disparity between coatings for passenger cars and non-passenger cars, creating opportunities for companies with strong technical competitiveness. The high-end segment of the passenger car interior coating market still offers significant growth potential, and companies are actively pursuing development and expansion in this direction.

Competition and Market Share: China, as the world's largest automotive producer and seller for 14 consecutive years, has attracted numerous multinational coating companies to vie for a share of the domestic automotive coating market. Foreign brands currently account for over 50% of the market share in the automotive coating industry. Six major companies, namely PPG, BASF, Kansai, Nippon Paint, Axalta, and KCC, hold over 80% of the market share in the passenger car coating segment in China. The market for passenger car body coatings is nearly monopolized by these companies. Foreign brands have enjoyed a dominant position in the automotive coating sector in China for several decades.

Market Size and Concentration: According to the "2022 China Automotive Coating Brand TOP 25" rankings, the Chinese automotive coating market was valued at 37.5 billion yuan in 2021. The cumulative sales revenue of the listed brands in the automotive coating sector amounted to 23.673 billion yuan, accounting for 63.13% of the national automotive coating market share. The top ten brands accounted for a cumulative sales revenue of 19.648 billion yuan, representing 52.39% of the national automotive coating market share. While the Chinese automotive coating market exhibits a high level of market concentration, it has not yet formed a monopoly pattern. However, the concentration levels may vary across different market segments.

Outlook and Opportunities: China's position as a leading automotive market presents opportunities for companies in the automotive interior coating industry. While foreign brands currently dominate the market, there is still room for domestic companies to enhance their technical capabilities and compete effectively. The expansion of the highend passenger car segment provides a promising avenue for growth and market penetration. Companies can focus on developing innovative coating solutions that meet the specific requirements and standards of different vehicle types, thereby gaining a competitive edge.

Conclusion: The Chinese automotive interior coating industry operates in a competitive environment, driven by the qualification requirements of major car manufacturers and varying standards across different vehicle segments. Foreign brands have historically dominated the market, but domestic companies have the potential to strengthen their technical competitiveness and tap into the growing high-end passenger car segment. As China's automotive market continues to thrive, companies in the automotive interior coating sector should adapt to market dynamics, invest in research and development, and tailor their offerings to meet the evolving needs of the industry.

Source : ECHEMI





DULUX Paints by PPG Launches 2024 Colour of the Year, Limitless

P^{PG} announced that DULUX Paints by PPG has selected Limitless (DLX1091-3) as its 2024 Colour of the Year. This fresh take on a neutral shade blends the invigorating power of a primary colour with the versatility of a warm neutral making it a perfect complement to any space.

An energizing yellow-beige, Limitless can be paired with both warm and cool-toned shades to bring a feeling of warmth to any living space. This subtle, yet invigorating hue infuses home decor with a sense of energy and optimism reflective of consumer sentiments moving into 2024.

"Across the globe, we're seeing design preferences shift from stark, cool-toned shades to those more reflective of cultural optimism coming to the forefront. This translates into an affinity for warm-toned shades that are both soothing, yet elevated," said Mitsu Dhawan, PPG brand manager Dulux paint. "There's a growing focus on creativity, holistic well-being and acceptance. From a colour perspective, this comes to life in a preference shift to calming shades that inspire feelings of happiness and goodwill; Limitless is the perfect embodiment of this

sentiment."

Warm beiges and honey yellows are at the forefront of shades signaling peace and optimism, as they take their cues from nature, conveying the calming warmth of the sun and the fresh, energizing start of a new day.

"The resurgence of optimistic colours will take us into a new era of home design that is closely aligned with a cultural focus on well-being, finding calm in a chaotic world and breaking free from convention," Dhawan said.

As the headlining hue of Dulux Paints' 2024 palette, Limitless embodies this sentiment perfectly. It is warm yet modern; invigorating, yet subtle enough to be used in any scale or surface, including both interiors and exteriors. It works seamlessly in combination with any of the colours in the 2024 palette and can be used as either a primary or accent colour with both warm and cooltoned hues.

Dhawan suggests using Limitless with delicate pastels to evoke a feeling of nur-

Limitless is a great option to consider for use on ceilings, interior doors and cabinetry. It can also be used to add curb appeal to exteriors, and works on homes of contemporary and traditional design. For those looking to complement their current design, Dhawan recommends using Limitless as a front door colour, signifying a warm welcome to visitors.

Limitless works with a range of colours in Dulux Paints' 2024 palette, which comprises earthy neutrals, warm floral hues and playful vibrant colours. Dhawan recommends pairing it with Sweet Spiceberry (DLX1059-7) for a bold, warm and energizing feel, Aquamarine Dream (DLX1135-4) for a comforting colour scheme, or Night Rendezvous (DLX1037-5) for a refreshing statement.

Dhawan recommends tinting Limitless in Dulux DIAMOND DISTINCTION[™] wall paint, a high-performance interior paint specially formulated to provide unprecedented resilience and washability.

Its patented clean-surface technology makes quick work of removing stains and scuffs with a simple wash. Formu-

lated to provide a mildew-resistant, long-lasting finish Dulux Diamond Distinction paint is a low-odour, low-VOC eggshell paint and primer that is the perfect base for any colour and ideal for use in interior spaces including bedrooms, kitchens and bathrooms.

Source : Coating Worlds



ture and support. Used as an all-over colour it brightens and invigorates when paired with white trim or is cozy and welcoming when grounded with chestnut brown accents. Due to its versatility,



Brenntag Specialties Opens Personal Care R&D Centre in France

Brenntag Specialties has kicked off operations at its personal care innovation & application centre in Lille, France.

The facility is designed to provide customers and suppliers with concepts and prototype development, customized formulation support, technical solutions and stability studies for a broad range of applications.

"The new centre is a great addition to the strong network of now 18 personal care/HI&I innovation & application centres globally and four in the EMEA re-

gion," said Michael Wilkop, EMEA president for personal care/HI&I.

Brenntag said it chose Lille due to its proximity to many suppliers and customers in the personal care industry in the region.

The centre is located in

the heart of Arteparc, the first business park in the metropolitan area fully based on circular economy and renewable energies.

All buildings have the Effinergie+ label and are designed according to the principles of high environmental quality. All roofs are equipped with self-consumption photovoltaic solar power panels, rainwater is managed by on-site

infiltration via road tanks and rainwater recovery tanks, supercharger terminals are available and powered by 100% renewable energy.

Brenntag has also links to the uni-

versity of Lille and cooperates with the Chevreul Institute, which aims to develop research collaborations and services in the field of chemistry and materials.

Source : Personal Care

Elevating Printing Sustainability: Navigating Beyond PTFE Inks

MUTTENZ, September 26, 2023 -Printing is as important today as it has ever been and it's a segment that is changing fast. Sustainability challenges are driving the demand for Polytetrafluorethylen (PTFE)-free additives as consumers increasingly look for environmentally friendly alternatives. Regulations globally are also targeting PTFE and its PFAS (per- and polyfluoroalkyl substances) counterparts, meaning now is the time join the sustainable printing journey. The good news is that with the ongoing evolution of inks and their impact on our environment it is now possible to print in an environmentally conscious way making the world of sustainable printing an exciting one.

Recap: Pioneering a Greener Path

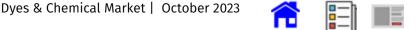
In our previous blog post, we explored the significance of inks in our increasingly printed and packaged world. From everyday items like soap pouches to intricate product inserts, inks bring aesthetics and information to the forefront. We examined the growing demand for sustainable ink solutions, highlighting the challenges posed by traditional PFAS-containing blends and the necessity of PFAS- and PTFE-free alternatives.

Understanding the PTFE Challenge

PTFE has historically been used as an additive to protect packaging labels yet, today, the critical subject of the use of PTFE waxes in printing inks is only getting further attention. These waxes, renowned for their non-stick qualities in cookware, have been employed to enhance rub resistance in printing inks applications. However, as environmental concerns heighten, the spotlight has shifted to the potential ecological impact of these compounds.

Both PTFE and its PFAS counterparts raise alarms due to their persistence in the environment and their potential to accumulate within ecosystems over time. This has prompted the printing industry, brands, and manufacturers to reconsider the role of PTFE waxes in ink formulations and strive for more sustainable alternatives.

The regulatory landscape is also changing fast. PFOA-related compounds have been regulated in the European Union





since July 2020. As well, the EU has released a Restrictions Roadmap as part of the Chemicals Strategy for Sustainability. This lists PFAS, of which PTFE can be a source, as being in the current pipeline for further restriction. In 2022, Japan's environment agency approved a ban on the manufacture, import and use of 56 PFOA- related compounds under the country's Chemical Substance and Control Law while last September, the U.S. EPA released a proposed rule seeking, for the first time, to designate PFOAs and PFOS as "hazardous substances" under the federal Superfund law.

A Glimpse into the Future: Ceridust[®] 8330

Following the sustainable pathway, one standout solution emerges – Clariant's Ceridust 8330. This unique bio-based additive, made from a renewable resource, is a real breakthrough for various printing inks. Characterized by a blend of flexible and resilient polymeric traits, Ceridust 8330 exhibits superior rub resistance properties when compared to conventional wax-based products, including PE/PFTE blends, and it can be easily dispersed in both water and solvent-based ink systems.

Additionally, while Ceridust 8330 allows for higher coefficient of friction (COF) needs, meeting anti-slip requirements, Ceridust 3030, 3610, and 3620 are well fitted to lower the COF for lowslip applications.

Finally, a unique benefit of Ceridust 8330 is its dosage reduction potential. Ink formulations using Ceridust 8330

can achieve similar or even superior performance compared to PT-FE-containing materials, leading to more efficient ink usage.

Towards a Sustainable Coexistence

As the ink technology landscape evolves, it's vital to recognize that this journey is an ongoing one. Beyond transitioning away from PTFE waxes, this transformation embodies a comprehensive shift toward sustainability across the entire ink production lifecycle.

From selecting raw materials for ink formulations to responsibly managing the end-of-life of printed materials, every decision shapes our environmental impact. By embracing sustainable practices and endorsing eco-friendly alternatives like Ceridust 8330, we are molding a printing landscape that reflects our commitment to a "healthier" planet.

Envisioning the Inks of Tomorrow To-

day



Along with us, we invite you to be part of the future of printing inks – a future where vibrancy and sustainability intertwine, where cre-

ative expression coexists harmoniously with environmental responsibility. Join us on this ongoing journey of innovation, collaboration, and positive change and keep an eye out for more insights into the ever-evolving world of sustainable printing inks.

Source : Press Release

ON VOLUDE – the Theme of BASF's 2023-2024 Automotive Color Trends Collection

- The classic automobile color wheel has had its day, and BASF has propelled color through a series of shifts
- A combination of human and non-human intelligence partnered up to create the ON VOLUDE collection
- Consideration of the growing need for sustainability and functionality

Each year, designers for BASF's Coatings division create a new collection of colors to inspire automotive designers around the globe. This year, non-human intelligence was a strong driver for the creation of the ON VOLUDE collection from Automotive Color Trends by BASF for 2023-2024.

When BASF's designers looked at what their trend signals were telling them, they realized it's time for a color update, as the classic automobile color wheel has had its day. Non-classic automotive hues emerged, propelling colors through a series of shifts reflecting a positive mood, with a focus on lighter shades and the exploration of new, expressive color spaces. ON VOLUDE provides exciting colors that also adopt an increasing focus on sustainability and functionality. As customers rely on the BASF collection to design automotive colors for their future models, one will see the new direction on the road or in the driveway in the next three to five model years.

EMEA – Exploring features beyond color position

The palette for Europe, the Middle East and Africa (EMEA) puts a highlight on bright beige colors. Pastels also play an important role, introducing interesting



non-automotive color positions into automotive design.

As seen throughout the ON VOLUDE collection, colors in EMEA explore features far beyond color position. They add sustainable, recycled raw materials, LiDAR and RADAR compatible concepts, and haptic surfaces.

"Expressive colors reflect our will to communicate and speak up," said Mark

Gutjahr, head of Automotive Color Design for EMEA. "When we bring non-automotive colors into the mix, we broaden that conversation even further into new and exciting color spaces."

Asia Pacific – Realistic approaches to sustainable concepts

For ON VOLUDE, designers in Asia Pacific (APAC) explored and enriched the important color spaces for whites and grays, while adventurous new color spaces like shimmering green pastel and fluorescent red offer new expressions to meet the growing individuality of car buyers in APAC.

The collection shows realistic approaches to sustainable materials, sustainable processes, and a diversity of sustainable concepts and effects. "This palette can create amazing color harmonies that are futuristic, modern and playful interactions between color and effect combinations," said Chiharu Matsuhara, head of Automotive Color Design for APAC. "These sustainable concepts are reimagined in a more realistic way, boosting BASF's leadership in sustainability."

Americas – colors evolving in their functionality

The Americas palette seeks optimism and divergence that celebrates possibilities in all modes of art and design. The color spaces are evolving in their func-

tionality while building in excitement.

The collection features softer hues, minimized textures and subtle moves that aspire toward future goals near and far. Colors in the Americas contribute to cooling effects in the vehicle with solar reflectance, work with sensor-based mobility concepts, and explore more approaches with responsible raw material sourcing.

"In this year's collection, red leaning pastels and mid-tones are replaced by restorative yellow and green effects suggesting renewal," said Liz Hoffman, head of Automotive Color Design for the Americas. "The connection complements both grounded color spaces and otherworldly escapes. It shows evolving mindsets in automotive design." Color Expertise of BASF Coatings

Every year, the designers of BASF's Coatings division study future trends which they use as foundation for the development of surface, texture and color positions. They draw inspiration from industry, fashion, consumer products, nature, technology, and more. This research is shared with BASF's customers, the automotive designers, to drive future mass production plans.

ON VOLUDE contains functional concepts with realistic approaches. BASF's designers set a global benchmark in color by also focusing on technology and innovation, which are important drivers for the automotive industry. The target is to meet those functional requirements while still being visually and haptically exciting.

BASF also leads the world in the global tools it uses to create new designs and share them with automotive designers. By using BASF's AUROOM^{*} – a digital platform providing digital color – the design process is faster and more efficient.

Source : BASF

Dow Collaborates with LanzaTech to Launch Readily Bio-Degradable Cleaning Solution that Utilizes Circular Carbon Capture

MIDLAND, Mich. – September 29, 2023 – Dow (NYSE: DOW) is introducing EcoSense[™] 2470 Surfactant, providing customers with a sustainable solution to meet their formulation goals by harnessing innovative carbon capture technology for the home care market.

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Developed in collaboration with Lanza-Tech Global, Inc. (Nasdaq: LNZA), the carbon recycling company transforming waste carbon into sustainable raw materials, this surfactant contributes to a circular carbon economy without sacrificing performance. The official launch of EcoSense[™] 2470 Surfactant will take place during a presentation at the Innovation Forum with Dow experts at the SEPAWA Congress, held from October 25 – 27 in Berlin, Germany.





EcoSense[™] 2470 Surfactant empowers brand owners to advance sustainability by seamlessly incorporating recycled carbon materials into their products. Adopters of EcoSense[™] 2470 will benefit from a drop-in solution that maintains high performance, ensuring a swift market entry while contributing to the

development of a new circular carbon economy.

What sets recycled carbon technology surfactants, such as EcoSense[™] 2470 Surfactant, apart



from other biosurfactants and biobased surfactants is their distinctive production method utilizing recycled carbon technology. Due to their both water-attracting and water-repelling nature, they possess versatile properties suitable for diverse home care applications and exhibit unique interfacial characteristics, rendering them appealing in terms of cleaning, foam, or emulsion stabilization. "The capability to provide cleaning solutions made from recycled carbon with outstanding effectiveness is a distinguishing factor that significantly influences the purchasing decisions of household consumers," said Farooq Alam, Global Strategic Marketing Director, Dow Home Care. "EcoSense[™]

> 2470 Surfactant underscores our dedication to e co-conscious surfactant manufacturing, serving as the gateway to a sustainable future. It sends a resounding mes-

sage to both home care brand owners and consumers that sustainability and superior performance work hand-inhand harmoniously."

This remarkable surfactant is the product of a collaboration with LanzaTech, a renowned pioneer in circular carbon capture technology. LanzaTech is a first mover in an innovative method that involves transforming recycled carbon into ethanol, a significant step towards enhancing the sustainability of cleaning products.

"There is enough carbon above ground to make all the things we need, "said Jennifer Holmgren, CEO of LanzaTech. "We have been active in the ethoxylates space for several years, converting ethanol to surfactant ingredients. Together with Dow we can now greatly expand our reach in this market. We can pave the way for recycled carbon home care products that deliver both sustainability and product quality. There is no need to compromise when doing good for the planet."

Source : DOW

Dow Launches Lower Carbon, Bio-Based, and Circular Propylene Glycol Solutions in Europe

TORGEN, Switzerland – September 121, 2023 – Dow (NYSE: DOW) today launched a new range of propylene glycol (PG) solutions featuring alternative - lower carbon, bio-based and circular - feedstocks in Europe. Customers can now deliver end-products to a broad range of industries, such as pharmaceutical, agricultural, and food, with third-party validated sustainability benefits due to a mass balance approach. This mass balance approach traces the flow of sustainable raw materials used to manufacture PG through a complex value chain and attributes it based on verifiable bookkeeping; an approach that has received ISCC PLUS certification.

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"We recognize demand has increased for the use of renewable materials to reduce carbon and enable circularity. By applying our low carbon, bio-based, and advanced recycling technologies, we are making this a reality for PG. Our customers will benefit from the same high-quality performance with a more sustainable material," said Andrew Jones, global business director, Dow CAV & POPG.

Offering sustainable PG solutions

Using innovative technologies, three new sustainable propylene glycol product lines will now be available in Europe and certified through ISCC PLUS:

- Propylene Glycol RDC featuring Decarbia[™] reduced carbon solutions from renewable energy sources*
- Propylene Glycol REN featuring Ecolibrium[™] bio-based technology from 2nd generation bio-based raw material
- Propylene Glycol CIR featuring Renuva[™] recycled content from post- consumer waste streams

PG RDC, PG REN and PG CIR are suitable for a broad range of applications



across industries as diverse as agricultural, pharmaceutical, cosmetics, textile and food. Over the coming months, Dow intends to launch equivalent products in other regions of the world.

Tracing sustainable materials through the value chain

Dow continues to implement the use of alternative feedstocks using the mass balance approach. Independent, external verification is a key part of the chain of custody method, which lies at the heart of this approach. Through verifiable bookkeeping and without changing the production process, it is possible to trace and attribute the flow of sustainable materials through complex value chains.

ISCC is a world leading international certification standard for fully traceable and environmentally, socially and eco-

nomically sustainable supply chains. Within Europe, the propylene glycol plant in Stade, Germany, has achieved this highly regarded third-party qualification.

This latest development is part of Dow's accelerated efforts to incorporate sustainability into every step of a product's lifecycle as it progresses on its journey to a low-carbon and circular future.

Source : Dow

BASF Environmental Catalyst and Metal Solutions (ECMS) and ZeroAvia Partner to Advance High Temperature Proton Exchange Membrane (HT-PEM) Fuel Cells for Hydrogen-Fueled Aviation

- Hydrogen fueled propulsion can enable climate neutral aviation
- ECMS will contribute Celtec* membrane electrode assembly technology for fuel cells and its hydrogen-related portfolio including precious metal services, catalysts, components and recycling
- ZeroAvia will develop and produce HT-PEM fuel cell systems for next generation aircraft

TSELIN, NJ, USA & KEMBLE, UK – BASF Environmental Catalyst and Metal Solutions (ECMS), a global leader in precious metal services and catalysis, and ZeroAvia, the leader in zero-emission propulsion solutions for commercial aviation, have signed an agreement for the supply of membrane electrode assemblies (MEAs) and to collaborate on research on next generation MEAs for ZeroAvia's world-leading high temperature proton exchange membrane (HT-PEM) fuel cell stacks for aviation. The companies will work together to accelerate the commercialization of a high-powered and lightweight MEA for HT-PEM fuel cells, suitable for the

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aviation market. The HT-PEM fuel cell utilizes ECMS's Celtec[®] technology and catalyst expertise.

As part of this initial agreement, ECMS and ZeroAvia will also work to establish a long-term supply agreement for MEAs, including the supply and sourcing of the associated platinum group metals (PGMs) and

PGM containing catalysts. Joint development work aims to enhance the components and materials supplied, thus increasing the performance of ZeroAvia's overall HT-PEM fuel cell stacks.

For 20 years, ECMS has been a leader in membrane and MEA technology for HT-PEM fuel cells through its Celtec[®] brand. It also has a strong foundation in precious metal services and catalysis.

"We recognize the potential of our Celtec[®] technology to



enable high-powered, lightweight, hydrogen-electric



propulsion solutions and are committed to building a full loop supply chain for

green hydrogen technologies including precious metal catalysts, components and recycling. We believe the close cooperation with ZeroAvia will accelerate this technology, supporting the industry's ambition for climate neutral aviation," said Jason Cox, Global Head of the

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Hydrogen Business at BASF Environmental Catalyst and Metal Solutions.

ZeroAvia's team achieved technological breakthroughs by delivering a pressurized HT-PEM system. High temperature PEM fuel cells are a critical enabling technology for large, fixed-wing aircraft, rotorcraft and eVTOL applications. Increased temperature and pressure allow for air cooling, reduce cooling drag, simplify the system, and ultimately enable much more demanding applications. ZeroAvia's testing of its pressurized 20kW HT-PEM stack power module has already demonstrated an industry leading 2.5 kW/kg power at the cell level. The company is targeting a 3+ kW/kg system level power density over the next two to three years, which requires advances in various components within the stacks. This will help extend the technology from supporting regional turboprop aircraft, to potentially enabling hydrogen-electric propulsion systems for 100 plus seat narrowbody turbofan aircraft such as the Boeing 737 and Airbus A320.

"Partnering with ECMS enables us to accelerate our HT-PEM development, facilitating rapid development of our powertrains for large regional turboprop, regional jet and ultimately, even narrowbody aircraft," said Rudolf Coertze, Head of R&D, ZeroAvia. "This agreement is an important step towards securing the components that will enable manufacture of the ZA2000 engines for 40-80 seat aircraft once certified in 2027."

Source : BASF

INEOS Styrolution Launches New U.S. Produced, NAS® ECO Grade of Bio-attributed polymers for the Americas Region

- Decatur, Alabama facility to produce bio-attributed NAS[®] ECO with lower carbon footprint
- New drop-in solutions support companies in meeting sustainability goals

INEOS Styrolution, the global leader in styrenics, announces the introduction of their U.S., domestically produced NAS ECO grade of sustainable polymers. The new grade contains bio-based renewable materials and is now available in the Americas.

The addition of NAS ECO into the company's ECO product portfolio, provides their customers with a growing selection of drop-in solutions for domestically produced, bio-attributed styrenic polymers without costly process changes.[1]

Produced at INEOS Styrolution's site in Decatur, Alabama, NAS ECO is based on the mass balance ISCC PLUS certified approach. NAS ECO 21, NAS ECO 30, and NAS ECO 90 will carry a "BB70" designation which indicates the percentage of bio-based content to be 70%, and NAS ECO XC will become available with a 50% bio-based content.

INEOS Styrolution Vice President Sales Management, Americas, Ricardo Cuetos, says, "We are pleased to offer our customers, U.S. produced, bio-attributed products. Our ECO materials provide customers with a seamless approach for integrating sustainable styrenic solutions into their current manufacturing processes."

NAS ECO materials have identical properties and the same high-quality and performance as their fossil-based NAS counterparts. Thus, enabling a direct replacement for customers seeking to reduce their carbon footprint and achieve sustainable product goals.

Source : Ineos

Keeping it Real: Low Carbon Solutions Highlights New Technologies on Energy Podcast

Our senior vice president of Low Carbon Solutions, Matt Crocker, recently joined the ARC Energy Ideas

podcast to talk about what we're doing in carbon capture and storage (CCS), hydrogen and lower emission fuels. Matt chatted with hosts Peter Tertzakian and Jackie Forrest and talked about several of our recently announced proj-



ects to reduce emissions, including our CCS agreements along the U.S. Gulf Coast, the renewable diesel facility at

Imperial's Strathcona refinery and our plans for the world's largest low-carbon hydrogen plant in Baytown, Texas.

"We see a huge opportunity potential to deploy these technologies and we need to see that happen on an ever-increas-

ing scale," he said. He also discussed the three drivers

that could accelerate the pace of the energy transition – technology advances, public policy support, and

the development of market-based solutions. "There needs to be a carbon-based market where consumers

and companies are willing to pay some level of premium to reduce carbon," he said.

Matt also said the energy transition is going to take significant investment and cooperation between governments, companies and academic institutions. We plan to invest \$17 billion through 2027 on lower-emission initiatives, and as Matt said, "We're focused on playing our part."

Source : Exonmobil

Wanhua Chemical Released Polyurethane Solutions for Clean Energy Battery System

With the growing demand for clean energy vehicles, people are constantly searching for safe and long-range material solutions. Wanhua Chemical, with its continuous R&D efforts, is providing a polyurethane solution for clean energy battery systems.

HP-RTM polyurethane battery case

It provides a light and safe alternative for battery housing cover.

- 40-50% weight reduction compared to aluminum alloy, excellent strength, rigidity, and flexibility
- UL94 V0 in flame retardant test with only 0.8mm thickness
- Excellent insulation, highly compatible with battery pack system applications
- 0.26 W/m·K thermal conductivity coefficient, good temperature resistance and thermal insulation
- Fast curing, easy demolding, low energy consumption, efficient in mass production

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Lightweight flame-retardant bottom protective plate

It adopts PU sandwich composite, so no need for additional layers. The upper and lower skins are produced by HP-RTM process, and only PU material needs to be injected during production.

- Only 0.05 W/m·K of thermal conductivity coefficient, excellent thermal insulation
- UL94 V0 in flame retardant test, without being burned through for 10 minutes at 1000°C.
- Deformation <2 mm under 120J impact energy
- With a density of 0.6 g/cm3, 50% weight reduction compared to traditional steel+PVC plate

Impact-resistant and flame-retardant pultruded material

It is composed of glass fiber reinforced polyurethane pultruded composite, which provides a strong structure perpendicular to the driving direction, improving the structural strength and im-



pact resistance of the battery pack.

- Low density, high strength, high modulus
- Excellent thermal insulation
- Low linear expansion coefficient
- Ideal electric insulation and flame retardancy
- Suitable for corrosive and low-temperature environments

Impact-resistant coating for automotive

It is mainly used for compartments like automotive power battery house cover and bottom protective plate that require extra protection for stone impact. It features excellent thermal insulation, physical properties, and good operability.

- Electrophoretic aluminum plate spraying process with a spraying thickness of 0.3-0.8 mm
- Simple process, fast spraying and curing, no need for baking
- High production efficiency, surface tack free within 1-2 minutes after

EVENTS AND CONFERENCES

CPHI INDIA

Date: November 28-30, 2023
City: India Expo Centre, Greater Noida, Delhi NCR
Country: India
Website: <u>https://www.cphi.com/india/en/home.html</u>

Description: As the pharma industry looks increasingly towards India for high quality, low cost pharma solutions, CPHI & PMEC India is the ideal event for companies wanting to pick up on the latest trends and innovations the market has to offer.

At CPHI & PMEC India, you will meet the movers and shakers from India's pharma machinery, technology and ingredients industries, giving you a competitive advantage that will help grow your business.

PAINT INDIA		
Date: Feb 22-24, 2024		
City: Bombay Exhibition Centre, Mu	ıbai	
Country: India		
Website: https://www.paintindia.iu	/	

Description: PaintIndia is the premier trade fair for the paints, coatings and allied industries in this part of the world, and the third largest show of its kind the world over. It has been in existence for over 25 years now, and has been the fastest growing event globally in this space. It comes from the same lineage as the magazine of the same name, which has been serving the Industry for over 70 years now. More recently, it has been fortified and strengthened globally with the joint ownership between the erstwhile owners and the owners of the European Coatings Show.

CPHI BARCELONA

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

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

PAINT EXPO GERMANY

Date: Apr 09 -12, 2024 City: Karlsruhe, Germany Country: Germany

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EVENTS AND CONFERENCES

Website: https://www.admetalsurfacetreatment.com/events-stand-attendance/paint-expo/

Description: PaintExpo takes place every other year in Karlsruhe as a showcase for innovations, applications, future technologies and trends covering all aspects of industrial coating. The trade fair spans the entire range of international products and services in the supply chain for industrial coating technology. The wide spectrum of products extends from spray guns, equipment and materials to automation technology. This globally unique get-together of companies from the industry is unparalleled worldwide, making it highly attractive for coating service providers and in-house coating companies from around the world.

5TH BANGLADESH INT'I DYES, PIGMENTS AND CHEMICALS EXPO

Date: Oct 26 -28, 2023

City: International Convention City Bashundhara (ICCB), Dhaka, Bangladesh

Country: Bangladesh

Website: https://10times.com/dyes-pigments-and-chemicals

Description: After getting tremendous response from previous editions, RedCarpet365 Ltd is organizing 7th Edition of Bangladesh Int'l Dyes, Pigments and Chemicals Expo, from 26 to 28 October 2023 at International Convention City Bashundhara - ICCB, Dhaka - Bangladesh. Dyes, Dyestuffs, Pigments and all kind of Chemicals - Manufacturer, Suppliers & Exporters from Home & Abroad will participate at this mega exhibition. This expo will help Foreign Manufacturer, Dealers & Suppliers to Showcase their products, where Bangladeshi Factory Owners & Exporters can get in touch with them. This Event will obviously encourage local manufacturers & producers to export their goods in foreign markets. Foreign buyers will also visit to check new trends & quality Dyes, Dyestuffs, Pigments and allied Chemicals.

EXPO PAINT & COATING

Date: Jan 17 - 19, 2024

City: International Convention City Bashundhara – Next To 300 Ft. Purbachal Express Highway, Dhaka, Country: Bangladesh

Website: https://www.2exhibitions.com/chemical-and-dyes/expo-paint-and-coatings-dhaka/

Description: Expo Paint & Coatings 2024 is a comprehensive Paint & Coatings Exhibition providing platform to the needs of every façade 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.

CHINA INTERDYE 2024

Date: Apr 17 - 19, 2024

City: Shanghai World Expo Exhibition and Convention Center, Shanghai

Country: China

Website: https://10times.com/china-interdye

Description: "China International Dye Industry, Pigments and Textile Chemicals Exhibition"

China Interdye is a premier international show, conducted annually, for the Dyes and Dye Intermediates, Pigments and Textile Chemical industry. It is the perfect meeting point for the exhibitors to reach the global attendees and the perfect medium to know about the recent developments made in these industries.





spraying, production cycle < 3 minutes

High strength and resilient buffer material

It can significantly reduce the impact on the battery pack what vehicle collisions happens.

- 5 minutes automated production
- High flame retardancy, high interval compression strength, high elasticity, improved vehicle side collision resistance
- Reduce the risk of thermal runaway in the event of battery pack collision

Looking ahead, Wanhua Chemical will continue to collaborate with a diverse range of partners to offer innovative products and solutions in the clean energy field. We are committed to fostering a sustainable future for our global community.

Source : Wanhua

Toray and ITP Foods Contribute to Carbon Neutrality by Commercializing World's First Food Packaging Employing Volatile Organic Compound-Free Waterless Electron Beam Offset Printing

Tokyo, Japan, September 25, 2023 – Toray Industries, Inc. and its partner ITP Foods Sdn. Bhd. of Malaysia announced that, in a world first, they are to commercialize a flexible food packaging employing a proprietary Toray waterless electron beam offset printing system. This system is free of volatile organic compounds (Note 1) and reduces carbon dioxide emissions.

The applications of flexible packaging include refillable pouches for foods, shampoos, and detergents. These materials are popular for their lightness, transparency and processing ease. Flexible packaging market should expand more than 3% through 2025 as global population rises (Note 2).

Regular flexible packaging employs petroleum solvents in inks to print text, images, and other information on plastic films. The solvents release volatile organic compounds. Another issue with these inks is that they require equipment to heat, dry and incinerate these solvents in printing process. These processes consume a lot of energy.

The environmental harms of carbon dioxide from energy consumed in printing on base films and the impacts on work environments from volatile organic compounds make it vital to slash carbon dioxide emissions and eliminate those compounds in printing processes.

Toray has accordingly demonstrated and researched practical applications for waterless electron beam offset printing technology by employing its proprietary **IMPRIMA[™]** offset printing plate (Note 3). This setup cuts volatile organic compound and carbon diox-

ide emissions in printing processes by at least 80%.

ITP Foods remains dedicated to utilizing eco-friendly flexible packaging materials. In a pioneering move, the company has chosen to incorporate Toray's environmentally conscious printing technology for its film packaging in the production of its new products. An additional advantage of adopting this technology is its superior printing performance compared to conventional options, particularly when packaging food ingredients with delicate textures



of Southern Asia.

The packaging for new

ITP Foods products showcase the use of eco-friendly printing technology. They carry the P4E[™] Mark (Note 4) to indicate that the

printing system is free of volatile organic compounds and the Monarch Butterfly Mark (Note 5) to show use of waterless printing plates.

ITP Foods plans to exhibit its new products at Anuga 2023, the world's leading trade fair for food and beverages, in Cologne, Germany, from October 7 to 11. That company aims to leverage that event and other vehicles to promote the



eco-friendly printing-based packaging of new offerings in various countries.

Toray and ITP Foods will accelerate the deployment of environmentally-friendly

electron beam offset printing technology in producing flexible packaging. They will help materialize a sustainable economy by cutting carbon dioxide emissions and eliminating volatile organic

compounds in flexible printing systems for this packaging.

Source : Toray

New Mixed-Bed Resin from LANXESS for Ultra-Pure Water in Semiconductor Production

- Lewatit UltraPure 1296 MD PLUS now available
- Significant reduction in metal content of ion exchange resin components
- Minimal release of TOCs (Total Organic Carbon) and particles
- High operating capacity •

ANXESS has developed a new LANXESS has according to the mixed-bed resin for ultra-pure water in semiconductor production. In comparison with the established Lewatit

UltraPure 1296 MD mixed bed, the new UltraPure 1296 MD PLUS boasts a much lower content of metals such as iron, zinc and sodium. Photo: LANXESS Specialty

chemicals company LANXESS

has developed a new mixed-bed resin for ultra-pure water in semiconductor production. In comparison with the established Lewatit UltraPure 1296 MD mixed bed, the new UltraPure 1296 MD PLUS boasts a much lower content of metals such as iron, zinc and sodium. Early installations of the product as a final polishing filter in semiconductor manufacturing have yielded results close to the current analytical limits of detection.

LANXESS will be unveiling its new type of ion exchange resin to trade visitors at the UltraPure Micro conference being held in Austin in the US state of Texas from October 10 to 12, 2023.



"The Lewatit UltraPure 1296 MD PLUS produced in Germany is a vital component for cost-effective, sustainable and fault-free manufacturing in the fast-growing international semiconductor industry," says Hans-Juergen Wedemeyer, Technical Market-

> ing Manager at the Liquid Purification Technologies business unit at LANX-ESS.

Lewatit UltraPure 1296 MD PLUS for the toughest assignments

The manufacturing of semiconductors and displays calls for complex water treatment to ensure that the water used is of the required purity. The latest generation of wafers and microchips demands a correspondingly high level of quality from the ion exchange resin systems employed. Furthermore, new analytical systems are capable of analyzing ions in the low ppt (parts per trillion) range. For some types of ion, they can go as low as the ppq (parts per quadrillion) range. Achieving the performance of semiconductors required by modern industry can necessitate as many as 200

treatment steps. The ultra-pure water needed for this is provided by means of a complex multi-stage process. The most important steps in the operation include conventional primary demineralization with standard ion exchange resins, reverse osmosis, degasification, ultrafiltration and hydrogen peroxide removal, while the last stage is final polishing with an ultra-pure mixed bed. The new Lewatit UltraPure 1296 MD PLUS ion exchange resin type was developed specifically for this final step, which is absolutely critical to the success of the process as a whole.

The ultra-pure water treated in this way can then be used in etching and cleaning processes in microchip production. "The high total capacity and degree of regeneration of the anion and cation exchange resins also result in excellent operating capacity for the removal of boron and silica, as well as metal ions," says Wedemeyer.

"The bead sizes of the monodisperse components are designed to avoid an inadvertent separation of cation and anion exchange resins. Due to the special production process for Lewatit UltraPure 1296 MD PLUS, the release of particles and TOC is within an extremely low range," adds Wedemeyer.

Source : Lanxess





Current Prices 400 1130 745 890 730 1200 950 1510 900 245 800 950 950 980	TypeCFR IndiaCFR IndiaCFR IndiaFOB IndiaCFR South AsiaCFR IndiaCFR India
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950	CIF India
1250	CIF India
945	CIF India
800	CFR India
765	CIF India
	910-950 470 980 500 780 950 1250 945 800

Mumbai Market Price as on 13/10/2023					
Name of Chemical	Packing type	Units	Current Price	Exclusive of	
	Imported Repack	Rs/Kg	56	GST	
Acetic Acid	Domestic Intact	Rs/Kg	66	GST	
	Domestic Repack	Rs/Kg	56	GST	
	Imported Intact	Rs/Kg	NA	GST	
A setter s	Imported Repack	Rs/Kg	96	GST	
Acetone	Domestic Intact	Rs/Kg	115	GST	
	Domestic Repack	Rs/Kg	96	GST	



	Imported Intent		141	GST
Acetonitrile	Imported Intact Domestic Intact	Rs/Kg	141 NA	GST
Acetonitrie		Rs/Kg		
	Domestic Repack	Rs/Kg	NA 160	GST GST
Acrylonitrile	Imported Intact	Rs/Kg		
	Imported Repack	Rs/kg	135	GST
-	Imported Intact	Rs/Kg	165	GST
Aniline	Imported Repack	Rs/Kg	159	GST
-	Domestic Intact	Rs/Kg	166	GST
	Domestic Repack	Rs/Kg	NA	GST
Benzene	Domestic Repack	Rs/Litre	86	GST
	Imported Intact	Rs/Kg	143	GST
Cyclohexane	Imported Repack	Rs/Kg	NA	GST
	Domestic Intact	Rs/Kg	128	GST
	Domestic Repack	Rs/Kg	118	GST
_	Imported Intact	Rs/Kg	150	GST
Cyclohexanone	Imported Repack	Rs/Kg	140	GST
cyclonexanone	Domestic Intact	Rs/Kg	160	GST
	Domestic Repack	Rs/Kg	146	GST
C9 Solvent (99.99% purity)	Imported Repack	Rs/Kg	110	GST
C9 Solvent (Arham Petrochem)	Imported Repack	Rs/Kg	109.75	GST
Dibutyl Phthalate	Domestic Intact	Rs/Kg	127	GST
Dioctyl Phthalate	Imported Intact	Rs/Kg	NA	GST
Dioctyl Plitilalate	Domestic Intact	Rs/Kg	137	GST
Ethyl Acotata	Domestic Intact	Rs/Kg	95	GST
Ethyl Acetate	Domestic Repack	Rs/Kg	90	GST
Formaldabuda(27%)	Domestic Intact	Rs/Kg	19.5	GST
Formaldehyde(37%)	Domestic Repack	Rs/Kg	18.5	GST
Methanol	Imported Repack	Rs/Litre	35.5	GST
	Imported Intact	Rs/Kg	120	GST
Methyl Ethyl Ketone	Imported Repack	Rs/Kg	108	GST
	Imported Intact	Rs/Kg	165	GST
Methyl Isobutyl Ketone	Imported Repack	Rs/Kg	144	GST
	Domestic Repack	Rs/Kg	NA	GST
	Imported Intact	Rs/Kg	144	GST
Methyl Methacrylate	Imported Repack	Rs/Kg	NA	GST
	Imported Repack	Rs/Kg	104	GST
Mixed Xylene	Domestic Repack	Rs/Kg	103	GST
	Imported Intact	Rs/Kg	NA	GST
F	Imported Repack	Rs/Kg	55	GST
Monoethylene Glycol	Domestic Intact	Rs/Kg	63	GST
F	Domestic Repack	Rs/Kg	56	GST





Rs/Kg Rs/Kg	123 140 123 105 98 107 98 116 NA 108 120 109	GST GST GST GST GST GST GST GST GST GST
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Rs/Kg Rs/Kg	120 109	GST
Rs/Kg	109	
		GST
Rs/Ka		
13/18	107	GST
Rs/Kg	107	GST
Rs/Kg	NA	GST
Rs/Kg	109	GST
Rs/Kg	105	GST
Rs/Kg	105	GST
Rs/Kg	80	GST
	Rs/Kg Rs/Kg Rs/Kg Rs/Kg Rs/Kg	Rs/Kg 109 Rs/Kg 105 Rs/Kg 105

International market prices as on 13/10/2023				
Products	Regions	Current prices		
	Feedstock Prices \$/unit	-		
	WTI CRUDE	83.77		
Crude Oil (¢ /barral)	BRENT CRUDE	86.7		
Crude Oil (\$/barrel)	MARS US	81.21		
	OPEC BASKET	89.89		
Natural Gas	New York	3.31		
Gasoline	RBOB	2.18		
Heating Oil	US	3.04		
Ethanol	US	2.25		
	FOB Singapore	NA		
Naphtha (\$/mt)	European	630		
	CFR Far East Asia	663		
Propane	New York	0.69		
	Aromatics prices \$/MT	·		
Densene	FOB Korea	920		
Benzene	CFR Japan	940		





	CFR Japan	1030
	CFR South East Asia	1100
Styrene	CFR China	1026
	FOB Korea	1050
	CFR China	915
	CFR South East Asia	940
Toluene	FOB Korea	895
	CFR Japan	915
	CFR South East Asia	935
lso-mix xylene	CFR Taiwan	970
	FOB Korea	950
	CFR China	465
MEG	CFR South East Asia	405
	CFR China	282
	CFR Korea	330
Methanol	CFR South East Asia	350
		325
	CFR Taiwan	
	CFR South East Asia	1050
Solvent-MX	FOB Korea	950
	CFR China	935
Orthernalese	CFR South East Asia	1150
Ortho xylene	FOB Korea	1140
	CFR China	1115
5 1	CFR South East Asia	1045
Para xylene	FOB Korea	1015
	CFR Taiwan	1040
	FOB Japan	840
Propylene	FOB Korea	810
	CFR China	850
	CFR South East Asia	800
	FOB Korea	895
Propylene Glycol	CFR China	920
	CFR South East Asia	925
	CFR Taiwan	920
	CFR North East Asia	875
Ethylene	CFR South East Asia	865
2017.01.0	FOB Japan	860
	FOB Korea	865
Ethylene Di Chloride (EDC)	CFR Far East Asia	290
	CFR South East Asia	280





	CFR China	1025
Butadiene	CFR South East Asia	1005
	FOB Korea	1015
	Benzene	1090
	Methanol	269
	Ortho xylene	1445
FOB Rotterdam USD/MT	Para xylene	1195
	Xylene solvent	1120
	Styrene	1155
	Toluene	995
	Benzene C/G	410
	Toluene C/G	355
LICA Arometics prices FOD LIC Culf	Styrene C/LB	51.4
USA Aromatics prices FOB US Gulf	Para xylene \$/MT	1095
	Mix xylene C/G	358
	Methanol C/G	82
 In	termediates prices \$/MT	
	CFR Far East Asia	1225
Acrylonitrile	CFR South East Asia	1225
	CFR South Asia	1230
500	CFR Far East Asia	270
EDC	CFR South East Asia	320
	CFR Far East Asia	650
VCM	CFR South East Asia	675
	FOB Singapore	947
MTBE	FOB US Gulf	1063
	CFR China	1010
Dharad	CFR South East Asia	1090
Phenol	FOB US Gulf	1135
	FOB Rotterdam	1201
	CFR China	835
	CFR South East Asia	880
Acetone	CFR Far East Asia	685
	FOB US Gulf	1080
	FOB Rotterdam	1166
	CFR Far East Asia	1650
Caprolactum	CFR South East Asia	1650
	FOB North East Asia	415
Caustic Soda	CFR South East Asia	455
	FOB Rotterdam	1060
MEK		





	FOB US Gulf	1672
Ethyl acetate	FOB Rotterdam	975
	FD North West Europe(Euro/mt)	1020
	FOB US Gulf	2180
Butyl acetate	FOB Rotterdam	1405
	FD North West Europe(Euro/mt)	1425
	FOB US Gulf	990
IPA	FOB Rotterdam	1018
	FD North West Europe(Euro/mt)	1060
	CFR China	1160
NBA	CFR South East Asia	1170
	CFR Far East Asia	1165
	CFR China	1425
Octanol	CFR South East Asia	1390
	CFR Far East Asia	1445
	CFR China	1410
DOP	CFR South East Asia	1430
	CFR Far East Asia	1405
	CFR China	1055
Phthalic anhydride	CFR South East Asia	1095
	CFR Far East Asia	1075
ΡΤΑ	CFR Far East Asia	755
PIA	CFR South East Asia	765
	CFR Far East Asia	560
Acetic Acid	CFR South Asia	525
	FOB China	445
	CFR China	1010
VAM	CFR South East Asia	980
	CFR South Asia	1020
	Polymers prices \$/MT	
DVC Succession	CFR Far East Asia	860-880
PVC Suspension	CFR South East Asia	870-900
ABS Injection	CFR Far East Asia	1260-1310
Abs injection	CFR South East Asia	1280-1330

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

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



Shipping term		Description		
FOB	Free on Board	The seller quotes a price including the cost of delivering goods to the nearest port. The buyer bears all the 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 internation- al buyers and sellers.		
EXW	Ex-Works	The seller has no involvement with the transporta- tion costs and risks. The buyer has to collect the goods from the seller's site and get them to the final desti- nation. All the costs and risks are borne by the buy- er. It is advisable that the buyer purchases insurance since the goods can get damaged in transit. EXW is ide- al 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 prem- ises up to the destination port. Then, the buyer has to arrange for the goods to be transported from the port to his premises. The seller is only responsible for the cost of shipping the products to the destination port. CFR is used for products transported by sea or inland waterways only. The seller does not bear the risk of loss or damage during transit.		
CIF	Cost, Insurance, and Freight	If the buyer opts for CIF price, the seller pays for the load- ing and freight costs right from his premises up to the des- tination port as well as insurance. In the case of damage or loss, the seller bears the risk completely. The buyer has to arrange for transportation of the goods from the port to his premises. CIF is a safer option than CFR since the goods are insured by the seller up to their arrival at the destination port.		
DAP	Delivered at Place	It was previously known as DDU, Delivery Duty Unpaid. In this case, the seller is responsible for getting the goods from his own factory up to the premises of the buyer. He also bears the risk in the case of loss or damage of the goods right until the products are delivered to the buyer. The buyer only has to pay the import duties or custom clearance charges.		
DDP	Delivery Duty Paid	The seller is responsible for shipping the goods from his factory to the destination address provided by the buy- er, usually his factory or warehouse and is also liable for any damage or loss of goods during transit. The seller also takes care of the customs, VAT, or import duties levied on the products. The buyer only has to receive the products at the destination. In most cases, most sellers only offer DDP for small shipments.		



FD North West Europe	Free Delivered	Free Delivered North West Europe		
Countries Groups	Southeast Asia is composed of eleven countries: Brunei, Burma (Myanmar), Cambo- dia, Timor- Leste, Indonesia, Laos, Malaysia, the Philip- pines, Singapore, Thailand and Vietnam.	Far East Asia:The following countries are considered to be located in the Far East: China, Hong Kong, Macau, Japan, North Korea, South Korea, Mongolia, Siberia, Tai- wan, Brunei, Cambodia, East Timor, Malaysia, Laos, Indo- nesia, Myanmar, Singapore, Philippines, Thailand, and Vietnam.	South Asia: The region consists of the countries of Afghanistan, Pakistan, India, Nepal, Bhutan, Ban- gladesh, the Maldives, and Sri Lanka	

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

Openi	Opening Ports Price (Rs/kg) of Chemicals as on 13/10/2023							
	USD Exchange Rate: 83.24 INR							
Alphabets	Chemicals Name	Current Prices (INR/ kg)	Prices in USD/ mt Equivalent to INR/kg	Location				
	Acetic Acid	48.5	582.65	Ex-Mumbai				
	Acetic Acid	48	576.65	Ex-Kandla				
	Acetonitrile- imported intact	145	1741.95	Bhiwandi				
	Acetone	82	985.10	Ex-Mumbai				
А	Acrylic acid	90	1081.21	Ex-Mumbai				
A	Acrylonitrile	106-108	Not Available	Ex- Kandla				
	Adipic acid	124	1489.67	Ex-Bhiwandi				
	Aniline oil	145	1741.95	Ex-Kandla				
	ABS Resin	130	1561.75	Ex-Mumbai Market				
	Benzene	79	949.06	Ex-Vizaz				
	Butyl Acetate	109	1309.47	Ex-Kandla				
В	Butyl Acrylate monomer	108	1297.45	Ex-Kandla				
	Butyl Glycol	102	1225.37	Ex-Kandla				
	DMF Drum	82	985.10	Ex-Bhiwandi				
D	DIBP & DINP intact drum	NA	Not Available	Mumbai Market				
	DEG	67-69	Not Available	Ex-Kandla				





	PVC Resin	74	889.00	Ex-Mumbai Market
	Propylene Glycol	105	1261.41	Ex-Kandla
Ρ	Phthalic Anhydride	108	1297.45	Ex-Mumbai
	Phenolic Resin	150	1802.02	Ex-Indore
	Phenol	98.5	1183.33	Ex-Kandla
	Ortho Xylene	109	1309.47	Ex-Kandla
0	Ortho Cresol	250	3003.36	Ex-Bhilai
	Octanol	120	1441.61	Ex-Kandla
I N	N-Propanol	85.5	1027.15	Ex-Kandla
Ν	N-Butanol	92	1105.24	Ex-Kandla
L	LAB	135iran,138 qatar	Not Available	Imported
I	IsoPropyl Alcohol	113/114	Not Available	Ex-Kandla/Ex- Mum- bai
-	Isobutanol	89-90	Not Available	Ex-Kandla
Н	Hydrogen Peroxide-50%	31 (32 NPL, 33 Maghmani)	Not Available	Ex-Bhiwandi
	Hexane	81	973.09	Ex-Kandla
	N-Heptane	150	1802.02	Ex-Bhiwandi
G	Glycerine	58	696.78	CIF Nhava Sheva
F	Formic Acid	70	840.94	Ex-Bhiwandi
E	Ethyl Acrylate	NA	Not Available	Ex-port
-	Epoxy Resin	185	2222.49	Ex-Nhava Sheva
	EDC	28.5	342.38	Ex-Kandla
	Cyclohexanone	122	1465.64	Ex-Kandla
	Cyclohexane	108	1297.45	Ex-Hazira
	Citric Acid-ANHYD Citric Acid-Mono	74 65	889.00 780.87	Ex-Bhiwandi Ex-Bhiwandi/Ex- Mumbai
			Available	
С	Chloroform	NA	Not	Ex-Mumbai Ex-Dahej
	Caustic Soda Lye		Not Available	Ex-Mumbai
	grade Caustic Soda Lye	65	432.48	Mumbai Ex-Dahej
	C9 Carbon Black- regular	95	1141.28	Ex-Kandla
		05	1141 20	Ev Kandla





Numbers	2,4-2,5 Xylenol	195	2342.62	Ex-Bhilai
	Maleic Anhydride- Drum	91	1093.22	Ex-Mumbai
	MDC	44 ex gfl	Not	Ex-Dahej
			Available	
	MEG	49-50	Not Available	Ex-Mumbai
	MEK	95	1141.28	Ex-Kandla
	Melamine	94	1129.26	Imported
	Meta Para Cresol	82	985.10	Ex-Bhilai
М	Methanol	26.5/27	Not Available	Ex-Kandla/Ex- Mumbai
	МІВК	129 ready,130inc	Not Available	Ex-Hazira
	Mix Xylene- Solvent Grade	92	1105.24	Ex-Kandla
	Mix Xylene- Solvent Grade	93	1117.25	Ex-Mumbai
	Mix Xylene-Iso Grade	93	1117.25	Ex-Kandla
	Mix Xylene-Iso Grade	NA	Not Available	Ex-Mumbai
	MMA	141	1693.90	Ex-Hazira
	Sodium Nitrate (50Kg Bag)	61	732.82	Ex-Taloja Plant(Make- Lasons)
	Soda ash light	40	480.54	Ex-Bhiwandi
S	Styrene Monomer	98	1177.32	Ex-Kandla
	Styrene Monomer	99	1189.33	Ex-Mumbai
	Sulphuric Acid	5 Vapi / 4.5 kolkata	Not Available	Ex-Vapi
	Tio2(Anatase Grade)	190	2282.56	Ex-Bhiwandi
Т	Tio2(Rutile Grade)	215	2582.89	Ex-Bhiwandi
	Toluene	93	1117.25	Ex-Kandla
	Toluene	94	1129.26	Ex-Mumbai
	VAM	73	876.98	Ex-Kandla
V	VAM	75	901.01	Ex-Hazira

Producer Prices (Rs/kg) of Chemicals as on 13/10/2023						
Producers	Chemicals Name	Current Price(Rs/kg)	Import parity price in USD/MT	Production capacity	Location	





	Toluene	(100 Jamna- gar)	Not Available	100,000 tonnes/year	Hazira
	Mix Xylene	(95 Jamna- gar)	Not Available	120,000 tonnes/year	Dahej
	MEG	53.2	639.12	750,000 tonnes/year	Jamnagar
RIL	DEG	68.4	821.72	65,000 tonnes/year	Jamnagar
	TEG	112.7	1353.92	NA	Jamnagar
	LAB	135.5	1627.82	180,000 tonnes/year	120ktpa Patalganga,
					60ktpa Vadodra
	РТА	86.6	1040.37	1,300,000 tonnes/year	Dahej
_	LAB	NA	Not Available	120,000 tonnes/year	Koyali, Gujarat
	MEG	49.7	597.07		Ex- Odisha(Paradip
	MEG	52.4	629.51		Ex-Panipat
IOCL	DEG	66.4	797.69		Ex- Odisha(Paradip
	DEG	68.7	825.32		Ex-Panipat
	Banzene	69	828.93		Vadodara, Gujarat
	Paraffin Wax	NA	Not Available		
Danuel Dhana	Phenol	97	1165.31	200,000 tonnes/year	Dahej
Deepak Pheno- lics	Acetone	80	961.08	80.5	Dahej
iics	IPA Bulk	114	1369.53	30,000 tonnes/year	Dahej
	Octanol	127	1525.71	70,000 tonnes/year	Vishakhapatnam
Andhra Petro- chemicals	N-Butanol	90	1081.21	30,000 tonnes/year	Vishakhapatnam
	Iso-Butanol	94	1129.26	4000 tonnes/year	Vishakhapatnam
	Ex-Deepak	NA	Not Available		
Adipic acid	Ex-BASF	152	1826.05	210,000 tonnes/year	Germany
NIRMA	LAB	135	1621.82	120,000 tonnes/year	Vadodra
TATA Chemicals	Soda Ash light	41	492.55	900,000 tonnes/year	Mithapur
GACL	Soda Ash light	NA	Not Available		





	С9	94.75	1138.27	69,000 tonnes /year	Kandla
	С9	95.75	1150.29	69,000 tonnes /year	Ahmedabad
	C10	NA	Not Available	30,000 tonnes /year	Kandla
	C10	NA	Not Available	30,000 tonnes /year	Ahmedabad
Arham Petro-	C10 - Imported Repack	NA	Not Available	30,000 tonnes /year	Bhiwandi Warehouse
chem Pvt Ltd (Kandla Energy & Chemicals Ltd	MTO/White Spirit(kl)	59.65	716.60	75000 tonnes / Year	Kandla
Refinery)	MTO/White Spirit(kl)	60.65	728.62	35,000 tonnes /year	Ahmedabad
	De-Aromatised D40	130	1561.75	75000 tonnes / Year	Kandla
	De-Aromatised D40	131	1573.76	35,000 tonnes /year	Ahmedabad
	De-Aromatised D60	139	1669.87	75000 tonnes / Year	Kandla
	De-Aromatised D60	140	1681.88	35,000 tonnes /year	Ahmedabad
HOCL	Phenol	112	1345.51	40,000 tonnes/year	Kochi
HUCL	Acetone	86	1033.16	24640 tonnes/year	Kochi
	Phenol	NA	Not Available	39500 tonnes/year	Ratnagiri, Maharashtra
	Acetone	64	768.86	24000 tonnes/year	Ratnagiri <i>,</i> Maharashtra
SI GROUP	Phthalic Anhydride	103	1237.39	11000 tonnes/year	Ratnagiri, Maharashtra
	Benzene	NA	Not Available	NA	NA
	Meghmani	35.5	426.48	400000 tonnes/annum	Bharuch, Gujarat
Caustic Soda Lye	GACL	NA	Not Available		
	RIL	NA	Not Available	69500 tonnes/annum	Kurnool Distric, Andhra Pradesh
	Cyclohexane	109	1309.47	NA	Gujarat
GSFC	Cyclhexanone	NA	Not Available	NA	Gujarat





	Benzene	84.2	1011.53	90,000 tonnes/year, Mumbai Refin- ery,	87000 tonnes/year,Kochi
	Toluene	NA	Not Available	16,000 tonnes/year	Kochi Refinery
	Hexane(kl)	95.4	1146.08	35,000 tonnes/year, Kochi	Mumbai Refinery
	Hexane(MT)	143.6	1725.13	35,000 tonnes/year, Kochi	Mumbai Refinery
	MTO(kl)	101.3	1216.96	19,000 tonnes/year	Mumbai Refinery
	Paraffin Wax	NA	Not Available		
	Sulphur(Molten)	NA	Not Available	19,000 tonnes/year	Mumbai Refinery
	Acrylic Acid (Bulk)	NA	Not Available	47000	Kochi Refinery
BPCL	Acrylic Acid (Packed)	NA	Not Available	tonnes/year	Kochi Refinery
	2-Ethyl Hexanol (B)	NA	Not Available	47000	Kochi Refinery
	2-Ethyl Hexanol (P)	NA	Not Available	tonnes/year	Kochi Refinery
	N-Butanol(B)	96	1153.29		Kochi Refinery
	N-Butanol(B)	NA	Not Available	38000	Kandla Installation
	N-Butanol(P)	NA	Not Available	tonnes/year	Kochi Refinery
	Iso-Butanol(B)	99	1189.33	7000	Kochi Refinery
	Iso-Butanol(P)	NA	Not Available	7000 tonnes/year	Kochi Refinery
	Butyl Acrylate (B)	NA	Not Available	180000	Kochi Refinery
	Butyl Acrylate (B)	NA	Not Available	tonnes/year	Kandla Installation
	Butyl Acrylate (P)	NA	Not Available		Kochi Refinery
	2-Ethyl Hexyl Acrylate(B)	NA	Not Available	10000	Kochi Refinery
	2-Ethyl Hexyl Acrylate(P)	NA	Not Available	tonnes/year	Kochi Refinery

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



GNFC	TDI Drum	202		67000	
			2426.72	67000 tonnes/year	Bharuch
	Aniline Oil	146	1753.96		Bharuch
L	Grasim	NA	Not Available	33000 tonnes/year	Nagda, Madhya Pradesh
MDC	Meghmani	39.5	474.53	397500 kg/month	Ankleshwar, Gujarat
	Rayalseema	NA	Not Available	40 tonnes/month	Bharuch, Gujarat
	GACL	39.5	474.53	NA	Bharuch, Gujarat
	GNFC	80.5	967.08	50000 tonnes/year	Bharuch, Gujarat
	Accord	81	973.09		
	Satyam	81	973.09	50 tonnes/day	Nevasa, Maharashtra
Ethyl Acetate	Bhange	NA	Not Available	400ltr/day	Ahmednagar, Maha- rashtra
	Jubilant	81	973.09	280 tonnes/day	Gajraula, U.P
	Laxmi	81	973.09	100000 tonnes/annum	Mahad, Maharashtra

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BASF Announces Production of Bio-Based 2-Ethylhexyl Acrylate for Sustainable Coatings and Adhesives

On September 25th, BASF announced that its integrated site in Ludwigshafen, Germany has achieved production capability for bio-based 2-ethylhexyl acrylate, a monomer used in the formulation of sustainable acrylic ester systems for coatings and adhesives. This represents the latest advancement in BASF's bio-based technologies, following the introduction of bio-based 1,4-butanediol (BDO) and bio-based plastic antioxidants.

According to BASF, the company is expanding its portfolio of carbon-14 labeled bio-based monomers with the proprietary process for producing 2-ethylhexyl acrylate (2-OA). This new product, in accordance with ISO 16620, demonstrates BASF's commitment to innovative sustainable solutions, with 73% of its carbon content derived from bio-based sources that can be traced. In addition to the conventional carbon-14 labeled bio-based 2-ethylhexyl acrylate, BASF has also introduced a new product, 2-ethylhexyl acrylate BMB ISCC Plus. In this case, the remaining carbon content is certified through ISCC PLUS and further reduces the product's carbon footprint (PCF2) by applying BASF's biomass balance (BMB1) approach.

BASF's integrated facility in Ludwigshafen, Germany hosts an industrial-scale production plant for 2-ethylhexyl acrylate, enabling BASF to supply this biobased monomer globally. Dr. Reiner Geier, Senior Vice President of Industrial Petrochemicals Europe at BASF, stated, "We are expanding our product portfolio to support customers on their journey towards sustainable development. With 2-OA, we proudly introduce a new acrylic ester monomer that helps our customers achieve their sustainability goals."

BASF's 2-ethylhexyl acrylate utilizes 2-ethylhexanol as the corresponding bio-based raw material. This bio-alcohol is derived from castor oil, a sustainable non-food feedstock that ensures a reliable year-round supply. Due to its solubility balance, 2-ethylhexyl acrylate can easily serve as a bio-based substitute in various applications such as chemical bonding agent formulations or coatings, replacing fossil-based monomers like 2-ethylhexyl acrylate (2-EHA) and butyl acrylate (BA).

In addition to being a fossil fuel alternative, this new product offers performance advantages, including improved wash resistance in coatings and enhanced shear stability and weather resistance in adhesives. As a result, 2-ethylhexyl acrylate is one of the few carbon-14 labeled bio-based monomers available for both standard and high-performance applications. BASF's high-purity 2-ethylhexyl acrylate offers reliable quality, low volatile organic compound (VOC) content, and enables customers to utilize the monomer across a wide range of applications. BASF's 2-ethylhexyl acrylate is already registered in the European Union, the United States, Japan, and many other countries, with further registrations underway.

Prior to this announcement, BASF entered into a cooperation agreement with Qore[®] LLC, a joint venture between Cargill and HELM AG, to secure long-term access to QIRA[®] bio-based 1,4-butanediol (BDO) in the United States. Meanwhile, Qore will expand the production of this bio-based BDO product at Cargill's biorefinery and the corn refining facility in Iowa to meet BASF's capacity requirements.

In the field of bio-based plastic additives, BASF also introduced a portfolio of biomass balance plastic additives that replace fossil-based materials with renewable feedstocks. The initial product range includes Irganox[®] 1010 BMBcert[™] and Irganox[®] 1076 FD BMBcert[™] antioxidants. These products have been certified through ISCC PLUS quality balance and verified by TüV Nord, contributing to the sustainable development of the plastics industry.

According to BASF's recent sustainability reports, the company has been implementing biomass balance approaches for the past three years. BASF procured 1.2 million metric tons of renewable raw materials to establish biomass balance solutions, offering over 240 biomass balance (BMB) products and accelerating greenhouse gas emissions reductions. Methanol certified by REDcert-EU, meeting the standards for high-quality biofuels set by the Renewable Energy Directive (RED), is one of the products derived from this initiative. BASF's investments in these



products align with its commitment to reducing carbon dioxide emissions. As part of its path to carbon neutrality, BASF has set ambitious goals to achieve net-zero emissions by 2050. Through process optimization, the gradual replacement of fossil fuels with renewable energy sources, and the development of low-emission technologies, BASF aims to further reduce its overall carbon footprint. The company plans to My knowledge cutoff is in September 2021, and I do not have access to real-time information or updates. Therefore, I don't have the specific details about BASF's recent announcement regarding the production of bio-based 2-Ethylhexyl Acrylate for sustainable coatings and adhesives. It's recommended to refer to reliable sources such as BASF's official website. press releases, or news outlets for the most up-to-date and accurate information on this topic.

Source : Echemi

Medmix Develops Sustainable Foil Composite Cartridge Body for Adhesives and Sealants

Medmix has developed the eco-paCC[™] which features a unique special foil composite that is only 0.15 mm thick, which replaces the 2.2 mm thick plastic body of solid cartridges.

According to the company, the new design preserves the barrier and mechanical properties, safeguards performance and reliability, at the time that the chosen materials and improved production bring a drastic reduction of the greenhouse gas emissions.

An internal Life Cycle Assessment (LCA) was conducted by the ECODE-SIGN company for medmix, to assess the environmental aspects and impacts of the materials, manufacturing and distribution of the MIXPAC[™] ecopaCC[™] foil cartridge versus the medmix 600ml 1:1 polypropylene solid cartridge.

They report that the greenhouse gas emissions (GHG) of ecopaCC are less than a quarter of the GHG of the solid cartridge in all these life cycle stages, and as such, ecopaCC offers a fully compatible product for standard dispensers with greatly reduced greenhouse gas emission.

Dr. Adriana Díaz, Life Cycle Assessment (LCA) expert at the ECODESIGN company in Vienna commented: "We started in 2005 as a spin-off of the Vienna University of Technology, to help organizations analyze their products, assess the environmental aspects and impacts, and support the adoption of ecodesign strategies towards more sustainable products and operations of our clients. Key ecodesign strategies for primary packaging products include, for example, the reduction in

the use of materials and the substitution of materials while preserving product functionality, and using low carbon energy sources for the production processes. These strategies are already implemented by medmix for the ecopaCC. Overall, the ecopaCC shows 154.7 gCO2-eq compared to 661.1 gCO2-eq for a solid cartridge, a reduction in GHG emissions of approximately 77%".

The internal LCA of the medmix cartridges assessed the materials, manufacturing and distribution for a representative B2B scenario of the two cartridges...

Source : ASC

Bio-Based Wax Additives for Inks, Wood, Metal, and **Powder coatings**

Wax additives are surface modi-fiers that enhance and protect

the appearance, feel, slip, durability, and and coatings. abrasion- and scratch-resistance of inks

Dyes & Chemical Market | October 2023



Wax additives are surface modifiers that enhance and protect the appearance, feel, slip, durability, and abrasion- and scratch-resistance of inks and coatings.

Shamrock Technologies develops and offers effective bio-based wax additives which can be used in a wide variety of long-lasting formulations, providing performance-enhancing benefits needed in the inks and coatings industry. By developing bio-based options, we seek to:

- Rethink fossil-based value chains
- Return to more natural sources, without depleting feedstock
- Reimagine a greener future with less impact on the environment

There are two primary reasons for using wax additives: controlling the processability of products—making them easier to use in a variety of applications—and improving the properties of various surfaces. Because of their versatility, it is important to choose the right product and type of additive for each project. Wax additives deliver a variety of surface effects across a wide range of applications, including:

- UV Inks: improve performance in UV-cured systems.
- Digital Printing Inks: improve rub-resistance and anti-blocking properties with minimal influence on gloss.
- Wood Coatings: increase scratchand abrasion-resistance and anti-blocking surface properties.
- Coil Coatings: control CoF, anti-blocking, anti-scratch and anti-abrasion properties while improving durability of surface properties.
- Powder Coatings: improve fluidization and antistatic properties during application and cure; provide slip and impact-resistance during use.

Shamrock Technologies offers a range of sustainable vegetable-derived natural wax additives as a part of our dedication towards green initiatives and promoting the circular economy. We are committed to helping the environment through our working practices of using bio-renewable resources and conservative energy processing methods.

In keeping with this ap-

proach, we are proud to announce the expansion of our bio-based wax additives with our new BioSLIP[™] series. The BioSLIP[™] product line offers outstanding slip and mar resistance with a controlled impact on gloss and clarity. For example, **BioSLIP™ 297 is an all-nat**ural wax, able to achieve the same high performance in Taber abrasion values as fossil-based materials in wood floor coatings. BioS-LIP[™] products integrate naturally sourced materials into ink formulations and coatings, improving their performance and extending the useful life of the products.

Source Coatings World

DyeCoo and CleanDye CO2 Dyeing Technology Slashes Greenhouse Gas Emissions by 58 Percent Compared to Conventional Dyeing

NEW YORK, Sept. 27, 2023 / PRNewswire/ -- DyeCoo's waterless dyeing technology, operated by CleanDye's factory in Vietnam, generated 58 percent lower greenhouse gas emissions than conventional textile dyeing vendors, an independent lifecycle assessment (LCA) commissioned by Adidas shows.

The LCA was commissioned as part of a program with Adidas to identify and certify low carbon textile coloration

technologies.

As brands like Adidas reshape the apparel industry to address climate concerns, technologies such as DyeCoo's supercritical CO2 dyeing that reduce both carbon emissions and water pollution are essential for sustainable fashion. Based on these results, Adidas will be incorporating CO2 dyeing into its supply chain.

The LCA was conducted by Sphera,

a third-party consultant with a proven track record of producing reliable sustainability reports across several industries. Sphera compared CleanDye and DyeCoo's waterless dyeing process to three of Adidas' conventional fabric vendors and found that CleanDye and DyeCoo generated a 58 percent smaller carbon footprint versus conventional fabric dyeing technology.

This report coincides with increasing interest in DyeCoo's technology from



firms all over the world, including manufacturers in Turkey, Vietnam, India, Bangladesh, and Central America and large international brands and retailers that seek to reduce their carbon footprint over the coming years. DyeCoo received enthusiastic feedback at ITMA - the world's largest international textile and garment technology exhibition, which was held in Italy in June. During the exhibition, DyeCoo introduced a range of new CO₂ dyeing solutions, including a smaller fully electric CO₂ dyeing machine suitable for sampling and small-scale production, as well as an advanced lab system for R&D purposes. "We are thrilled about this report — and that CO₂ dyeing is gaining momentum in textile manufacturing," said Kasper Nossent, commercial director at Dye-Coo. "We look forward to expanding our technology beyond our current customers to other factories around the world in collaboration with our brand partners."

Besides the significant sustainable impact, DyeCoo's CO_2 dyeing technology also provides a full color gamut and a very high batch-to-batch consistency in bulk production, without compromising on quality and cost. Simon Weston, CleanDye's chief executive officer, said, "The LCA is also a testament to our Vietnam facility, where we use DyeCoo technology to deliver high-quality, sustainably manufactured fabric at competitive prices."

CleanDye has already produced fabrics for brands such as Decathlon, Tom Tailor, s.Oliver, Marco Polo, and Bonprix, and many other global apparel and footwear brands are in discussions to incorporate DyeCoo and CleanDye into their supply chains.

"After analyzing the LCA, CleanDye has made further improvements to our process, and we are confident that our carbon emissions are even lower than the already impressive LCA figures," added Weston.

"We already knew that CO₂ dyeing technology dramatically reduces water pollution from textile manufacturing," said Kenneth Katz, managing director & head of Asia at TAU Investment Management, a New Yorkand Hong Kong-based private equity firm that holds a controlling interest in CleanDye and a significant interest in DyeCoo. "Innovation like this is critical. Twenty percent of industrial water waste comes from textile dyeing. But this report is especially exciting since it demonstrates that DyeCoo's patented technology and CleanDye's purpose-built dyeing facility in Vietnam also dramatically reduce carbon emissions.

"We look forward to expanding the impact of DyeCoo and CleanDye's innovation in the sustainable transformation of the fashion industry," Katz said.

Source : PRNewswire



Dyes & Chemical Market | October 2023









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- Your Own Company Profile Page
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- Create & Download your PDF catalog to share
- Membership approved only to verified Members
- View all your incoming Leads/ Enquiries
- Feature Your Products/Tech.
- No Fake Enquiries
- > Post Multiple Buy Enquiries Broadcasted to Suppliers
- Global Reach / Targeted Audiece (80,000+ Organic Reach)
- Monthly & Weekly Product Marketing via Email
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