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# **EDITORIAL**

# **CHEMICAL MARKET**

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

# Renewable Energy and its Impact in the Chemical Industry

There have been several IPO's recently and shares of several companies that have taken center stage and have recovered from an all-time low to fairly high values. IREDA is one of them that have raised 4 fold from INR 32 to INR 120 which is the highest among the renewal energy companies making it to the mainstream retailers and institutional investors. It is one of the players in the Solar Energy sector. The same solar energy sector which was once not given due importance few years back in 2016, when the news of Solar City, one of the companies which went bankrupt but was then acquired by none other than the energy crusader, Elon Musk and Tesla.

There has been similar price play with Suzlon Energy which is one of the companies providing solutions for wind energy. It has gone down from INR 389 in 2008 to INR 49 and from all-time low of INR 2.5 to approximately INR 40 today. At that time, there were several layers of denial to become carbon neutral or generate renewal energy but now with the new governments' initiative to become carbon neutral by 2047, there are chances that we will generate more renewal energy through wind energy in the next several years to become energy independent.

The third and the most important renewal energy generation is through Hydro Power stations and SJVN is one of the leaders. It has started its journey from INR 30 to currently approximately INR 95. All of the dams can be configured to generate hydro-power. All water flowing from peaks of the mountains to the bottom can be used to generate power, especially in the Himalayas and the state of Haryana.

By employing, solar, wind and hydro for generating renewable energy and to bring it to fruition is a long way to go but the impact it will have on the economies of the countries and environment will be commendable in the long run. We have still not focused on Thermal Energy and Nuclear Energy but as countries are striving hard to build more nuclear plants, the rate at which this will culminate for the energy needs to power homes, offices, factories and vehicles is going to play a major role in the economies of the companies and the countries.

The best part is, companies and countries with large surface area and located in between the Tropic of Cancer and Tropic

of Capricorn will benefit the most and hence an international solar alliance has been established by the Government of India to include all the countries lying between this zone to work together for a sustainable future and harness the use of the sun. The initiative is about One Sun One World One Grid (OSOWOG) which was put forth in October 2018 and aims at connecting the energy supply across borders.

To make energy exchange possible across borders, there will be a need to have an energy exchange network. One of them is Indian Energy Exchange (IEX) which is also an India based company that is engaged in proving an automated trading platform for the physical delivery of electricity, renewable and certificates.

The chemical industry is a vital sector of the global economy. It is also the most resource intensive and making a major impact on the environment. As several reputed chemical companies will seek to adopt the more sustainable and circular business models, renewable energy will help these companies to reduce it dependence of fossil fuels, finite resources, minimize the wastage and pollution and contribute more towards a sustainable future.

Note: All stock related information is in the public domain and we do not own or suggest investing in any particular company. It is an independent opinion of the editor regarding how things are changing in the renewal energy sector.

-Rajiv Parikh









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|--------------------|---------------------------|-------------------|
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| MUMBAI PRICE TREND – 14.12.2023 |               |  |
|---------------------------------|---------------|--|
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| SOLVENT C9 -BARRELS             | 107+          |  |
| TOLUENE - BARRELS               | 92+           |  |
| NBA - BARRELS                   | 98+           |  |
| EDC                             | 45+           |  |
| NPA                             | 116+          |  |
| CL                              | 37+           |  |
| MDI                             | 18+           |  |
| PHOESPHORIC ACID                | 98+           |  |
| MEALIC ANHYDRIDE                | 85+           |  |
| NIETRO BENZENE                  | 100+          |  |
| DMF                             | 88+           |  |
| ACITIC ACID                     | 45+           |  |
| MEK                             | 117+          |  |
| CYCLO                           | 144*+         |  |
| ETHYLE ACETATE                  | 85+           |  |
| FORMAL                          | 19+           |  |
| BUTYL ACETATE                   | 107+          |  |
| CAUSTIC POTASH                  | 113+          |  |
| ALPHOX                          | 161+          |  |

| TE4                 | 98+    |
|---------------------|--------|
| POTASSIUM CARBONATE | 128    |
| ACRYLIC ACID        | 96+    |
| EAM                 | 138+   |
| DCDA                | 160+   |
| P. G                | 131+   |
| IPA                 | 94+    |
| ACETONE             | 87+    |
| MIX XYLEN           | 95*+   |
| O. XYLENE           | 103+   |
| BENZENE             | 82+    |
| MEG                 | 54+    |
| DEG                 | 85+    |
| GLYCERINE           | 65+    |
| SORBITOL            | 47.50  |
| SODA ASH            | 1715+  |
| SMBS                | 37+    |
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Market Prices given in this Magazine is to know market trend only. We assume no responsibility for availability of products at quoted prices.







| CHENNAI PRICE TREND – 14.12.2023                     |            |         |  |
|--|------------|---------|--|
| Inorganic Chemicals No of Units Per Pack Price (Rs/M |            |         |  |
| Acid Slurry (Soft)                                   | 50 Kgs     | 125.00  |  |
| Alum- Ferric   | 50 Kgs     | 21.00   |  |
| Ammonium Bicarbonate                                 | 25 Kgs     | 25.00   |  |
| Ammonium Bi Fluoride [sugar-grade]                   | 50 Kgs     | 178.00  |  |
| Ammonium Carbonate                                   | 50 Kgs     | 88.00   |  |
| Ammonium Chloride                                    | 50 Kgs     | 32.00   |  |
| Ammonium Nitrate                                     | 50 Kgs     | 30.00   |  |
| Ammonium Phosphate (Mono)                            | 50 Kgs     | 135.00  |  |
| Ammonium Sulphate                                    | 50 Kgs     | 22.00   |  |
| Antimony Trioxide                                    | 50 Kgs     | 1050.00 |  |
| Barium Chloride                                      | 50 Kgs     | 58.00   |  |
| Bleaching Powder (33% CI)                            | 25 Kgs     | 14.00   |  |
| Borax (Granular)                                     | 50 Kgs     | 72.00   |  |
| Boric Acid (Tech.)                                   | 50 Kgs     | 108.00  |  |
| Calcium Carbonate (Activate)                         | 50Kgs      | 18.00   |  |
| Calcium Carbonate (Precipitated)                     | 50 Kgs     | 17.00   |  |
| Calcium Chloride Lump 70%                            | 50 Kgs     | 14.00   |  |
| Calcium Chloride-Anhydrous                           | 50 Kgs     | 24.00   |  |
| Camphor Oil  | 200 Litres | 135.00  |  |
| Caustic Potash (Flakes)                              | 50 Kgs     | 95.00   |  |
| Caustic Soda (Flakes)                                | 25 Kgs     | 43.00   |  |
| Caustic Soda (Prills)                                | 50 Kgs     | 92.00   |  |
| Chromic Acid Flakes                                  | 50 Kgs     | 320.00  |  |
| Chlorinated Xylene                                   | 25 Kgs     | 85.00   |  |
| Copper Sulphate                                      | 180 Kgs    | 220.00  |  |
| Di ammonium Phosphate                                | 50 Kgs     | 34.00   |  |
| Dioctylmalite  | 180 Kgs    | 82.00   |  |
| Ferric Chloride (Anhydrous)                          | Naked      | 39.00   |  |
| Ferrous Sulphate – Crystals                          | 50 Kgs     | 16.00   |  |
| Hydrochloric Acid                                    | Naked      | 6.00    |  |
| Hydrogen Peroxide 50%                                | 50 Kgs     | 34.00   |  |
| Hyflosupercell                                       | 22.7 Kgs   | 138.00  |  |
| Litharge   | 50 Kgs     | 220.00  |  |
| Lithopone B301(China)                                | 25 Kgs     | 112.00  |  |
| Magnesium Carbonate (Indian)                         | 50 Kgs     | 130.00  |  |
| Magnesium Sulphate                                   | 50 Kgs     | 18.00   |  |
| Mercury  | 34.5 Kgs   | 7800.00 |  |
| Napthaline Balls                                     | 50 Kgs     | 130.00  |  |
| Nickel Chloride                                      | 25 Kgs     | 625.00  |  |
| Phosphoric Acid (85% Tech)                           | 50 Kgs     | 105.00  |  |
| Potassium Carbonate (Powder)                         | 25 Kgs     | 178.00  |  |
| Potassium Carbonate (Granules)                       | 25 Kgs     | 100.00  |  |
| Potassium Nitrate                                    | 50 Kgs     | 150.00  |  |
| Potassium Permanganate [Tech]                        | 50 Kgs     | 200.00  |  |
| Potassium Permanganate [Pure]                        | 50 Kgs     | 220.00  |  |
| Potassium Phosphate (Di)                             | 50 Kgs     | 158.00  |  |
| S.L.E.S  | 50 Kgs     | 55.00   |  |
| =.+  | 5595       | 00.00   |  |

| Soda Ash Light   | 50 Kgs  | 3400.00   |
|--|---|---|
| Sodium Bicarbonate   | 50 Kgs  | 33.00   |
| Sodium Bichromate  | 50 Kgs  | 190.00  |
| Sodium Bisulphite  | 50 Kgs  | 45.00   |
| Sodium Chlorite 50% (India)  | 50 Kgs  | 240.00  |
| Sodium Chlorite 80% (India)  | 50 Kgs  | 280.00  |
| Sodium Cyanide   | 50 Kgs  | 650.00  |
| Sodium Fluoride  | 50 Kgs  | 150.00  |
| Sodium Formate   | 50 Kgs  | 63.00   |
| Sodium Hexameta Phosphate 68%  | 50 Kgs  | 132.00  |
| Sodium Hydrosulphite [China]   | 50 Kgs  | 180.00  |
| Sodium Metabisulphite  | 50 Kgs  | 45.00   |
| Sodium Nitrate   | 50 Kgs  | 52.00   |
| Sodium Nitrite (China)   | 50 Kgs  | 68.00   |
| Sodium Silicate  | Noted   | 28.50   |
| Sodium Sulphate (Anhydrous)  | 50 Kgs  | 15.00   |
| Sodium Sulphide 50-52% (Flakes)  | 50 Kgs  | 58.00   |
| Sodium Sulphide 58-60% (Flakes)  | 50 Kgs  | 52.00   |
| Sodium Sulphite 92%  | 50 Kgs  | 56.00   |
| Sodium Tri polyphosphate   | 50 Kgs  | 103.00  |
| Titanium Dioxide Anatase   | 25 Kgs  | 192.00  |
| Titanium Dioxide (Rutile - R-902)  | 25 Kgs  | 255.00  |
| Trisodium Phosphate  | 50 Kgs  | 42.00   |
| Zinc Chloride Powder (Tech.)   | 50 Kgs  | 75.00   |
| Zinc Oxide White Seal  | 50 Kgs  | 235.00  |
|  |   |   |
| Zinc Stearate [Pure]   | 25 Kgs  | 190.00  |
| Zinc Stearate [Pure] Zinc Sulphate (Tech.)   | 25 Kgs<br>50 Kgs  | 190.00<br>58.00   |
|  | -   |   |
| Zinc Sulphate (Tech.)  | 50 Kgs  | 58.00   |
| Zinc Sulphate (Tech.)  Organic Chemicals   | 50 Kgs No of Units Per Pack   | 58.00<br>Price (Rs/Kg)  |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  | 50 Kgs  No of Units Per Pack  35 Kgs  | 58.00<br><b>Price (Rs/Kg)</b> 72.00   |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone   | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs   | 58.00 Price (Rs/Kg) 72.00 97.00   |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  | 50 Kgs  No of Units Per Pack  35 Kgs  160 Kgs  196 Ltrs.  | 58.00  Price (Rs/Kg)  72.00  97.00  94.00   |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs   | 58.00  Price (Rs/Kg) 72.00 97.00 94.00 195.00   |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)   | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs  | 58.00  Price (Rs/Kg) 72.00 97.00 94.00 195.00 180.00  |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  Bisphenol-A (Russian)  | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs  | 58.00  Price (Rs/Kg)  72.00  97.00  94.00  195.00  180.00  110.00   |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  Bisphenol-A (Russian)  n-Butyl Acetate   | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs  | 58.00  Price (Rs/Kg) 72.00 97.00 94.00 195.00 180.00 110.00 125.00  |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  n-Butyl Acetate  Butyl Cellosolve  | 50 Kgs  No of Units Per Pack  35 Kgs  160 Kgs  196 Ltrs.  200 Kgs  25 Kgs  170 Kgs  165 Kgs   | 58.00  Price (Rs/Kg) 72.00 97.00 94.00 195.00 180.00 110.00 125.00 140.00   |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  Bisphenol-A (Russian)  n-Butyl Acetate  Butyl Cellosolve  Camphor  | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs 165 Kgs 195 Kgs  | 58.00  Price (Rs/Kg)  72.00  97.00  94.00  195.00  180.00  110.00  125.00  140.00  850.00   |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  Bisphenol-A (Russian)  n-Butyl Acetate  Butyl Cellosolve  Camphor  Cellosolve –Ethyl   | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs 165 Kgs 195 Kgs 25 Kgs   | 58.00  Price (Rs/Kg)  72.00  97.00  94.00  195.00  180.00  110.00  125.00  140.00  850.00  152.00   |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  n-Butyl Acetate  Butyl Cellosolve  Camphor  Cellosolve –Ethyl  Chloroform  | 50 Kgs  No of Units Per Pack  35 Kgs  160 Kgs  196 Ltrs.  200 Kgs  25 Kgs  170 Kgs  165 Kgs  195 Kgs  25 Kgs  300 Kgs   | 58.00  Price (Rs/Kg)  72.00  97.00  94.00  195.00  180.00  125.00  140.00  850.00  152.00  42.00  |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  Bisphenol-A (Russian)  n-Butyl Acetate  Butyl Cellosolve  Camphor  Cellosolve –Ethyl  Chloroform  Citric Acid (Anhy)   | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs 165 Kgs 195 Kgs 25 Kgs 300 Kgs   | 58.00  Price (Rs/Kg) 72.00 97.00 94.00 195.00 180.00 110.00 125.00 140.00 850.00 152.00 42.00 85.00   |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  n-Butyl Acetate  Butyl Cellosolve  Camphor  Cellosolve – Ethyl  Chloroform  Citric Acid (Anhy)  Citric Acid (Mono)   | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs 165 Kgs 195 Kgs 25 Kgs 300 Kgs 25 Kgs  | 58.00  Price (Rs/Kg)  72.00  97.00  94.00  195.00  180.00  110.00  125.00  140.00  850.00  42.00  42.00  85.00  68.00                             |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  n-Butyl Acetate  Butyl Cellosolve  Camphor  Cellosolve –Ethyl  Chloroform  Citric Acid (Anhy)  Citric Acid (Mono)  Cresote Oil   | 50 Kgs  No of Units Per Pack  35 Kgs  160 Kgs  196 Ltrs.  200 Kgs  25 Kgs  170 Kgs  165 Kgs  25 Kgs  50 Kgs   | 58.00  Price (Rs/Kg)  72.00  97.00  94.00  195.00  180.00  110.00  125.00  140.00  850.00  152.00  42.00  85.00  68.00  64.00                     |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  Bisphenol-A (Russian)  n-Butyl Acetate  Butyl Cellosolve  Camphor  Cellosolve –Ethyl  Chloroform  Citric Acid (Anhy)  Citric Acid (Mono)  Cresote Oil  Cyclohexanone   | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs 165 Kgs 25 Kgs 300 Kgs 25 Kgs 300 Kgs 25 Kgs 195 Kgs   | 58.00  Price (Rs/Kg) 72.00 97.00 94.00 195.00 180.00 110.00 125.00 140.00 850.00 152.00 42.00 85.00 68.00 64.00 150.00                            |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  n-Butyl Acetate  Butyl Cellosolve  Camphor  Cellosolve –Ethyl  Chloroform  Citric Acid (Anhy)  Citric Acid (Mono)  Cresote Oil  Cyclohexanone  D D Turpentine  | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs 165 Kgs 195 Kgs 25 Kgs 25 Kgs 25 Kgs 25 Kgs 300 Kgs 25 Kgs 25 Kgs 200 Kgs 200 Kgs  | 58.00  Price (Rs/Kg)  72.00  97.00  94.00  195.00  180.00  125.00  140.00  850.00  152.00  42.00  85.00  68.00  64.00  150.00  145.00             |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  Bisphenol-A (Russian)  n-Butyl Acetate  Butyl Cellosolve  Camphor  Cellosolve –Ethyl  Chloroform  Citric Acid (Anhy)  Citric Acid (Mono)  Cresote Oil  Cyclohexanone  D D Turpentine  Diacetone Alcohol                    | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs 165 Kgs 25 Kgs 25 Kgs 25 Kgs 25 Kgs 25 Kgs 300 Kgs 25 Kgs 300 Kgs 25 Kgs | 58.00  Price (Rs/Kg) 72.00 97.00 94.00 195.00 180.00 110.00 125.00 140.00 850.00 152.00 42.00 85.00 68.00 64.00 150.00 145.00 135.00              |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  Bisphenol-A (Russian)  n-Butyl Acetate  Butyl Cellosolve  Camphor  Cellosolve –Ethyl  Chloroform  Citric Acid (Anhy)  Citric Acid (Mono)  Cresote Oil  Cyclohexanone  D D Turpentine  Diacetone Alcohol  Diethylene Glycol | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs 165 Kgs 25 Kgs 25 Kgs 25 Kgs 25 Kgs 25 Kgs 300 Kgs 25 Kgs 25 Kgs 200 Ltrs. 195 Kgs 230 Kgs   | 58.00  Price (Rs/Kg) 72.00 97.00 94.00 195.00 180.00 110.00 125.00 140.00 850.00 152.00 42.00 85.00 68.00 64.00 150.00 145.00 135.00 88.00        |
| Zinc Sulphate (Tech.)  Organic Chemicals  Acetic Acid Glacial  Acetone  Benzene  Benzyl Alcohol  Bisphenol-A (Russian)  n-Butyl Acetate  Butyl Cellosolve  Camphor  Cellosolve –Ethyl  Chloroform  Citric Acid (Anhy)  Citric Acid (Mono)  Cresote Oil  Cyclohexanone  D D Turpentine  Diacetone Alcohol  Diethylene Glycol  Dimethyl Formamide    | 50 Kgs  No of Units Per Pack 35 Kgs 160 Kgs 196 Ltrs. 200 Kgs 25 Kgs 170 Kgs 165 Kgs 195 Kgs 25 Kgs 25 Kgs 25 Kgs 25 Kgs 25 Kgs 200 Kgs 200 Ltrs. 195 Kgs 230 Kgs 230 Kgs   | 58.00  Price (Rs/Kg) 72.00 97.00 94.00 195.00 180.00 110.00 125.00 140.00 850.00 152.00 42.00 85.00 68.00 64.00 150.00 145.00 135.00 88.00 100.00 |









| EDTA Acid         25 Kgs         248.00           EDTA Disodium         25 Kgs         228.00           EDTA Tetrasodium         25 Kgs         228.00           Ethyl Acetate         185 kgs         102.00           Ethylene Dichloride         200 Kgs         60.00           Ethylene Glycol-mono         230 Kgs         63.00           Formaldehyde         65 Kgs         28.00           Formic Acid         35 Kgs         68.00           Formic Acid         250 Kgs         64.00           Hexamine – Tech         50 Kgs         100.00           n-Hexane         160 Litrs         64.00           Hydroquinone (Imported)         25 Kgs         1150.00           Isopropyl Alcohol         160 Kgs         160.00           Isopropyl Alcohol (Refill)         160 Kgs         135.00           Maleic Anhydride         25 Kgs         110.00           Methyl Ethyl Ketone         166 Kgs         117.00           Methyl Isobutyl Ketone         160 Kgs         165.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         105.00           Monochloro Phenol         50 Kgs         105.00                      |                                 |           |         |
|---|---------------------------------|-----------|---------|
| EDTA Tetrasodium         25 Kgs         228.00           Ethyl Acetate         185 kgs         102.00           Ethylene Dichloride         200 Kgs         60.00           Ethylene Glycol-mono         230 Kgs         63.00           Formaldehyde         65 Kgs         28.00           Formic Acid         35 Kgs         68.00           Formic Acid         250 Kgs         64.00           Hexamine – Tech         50 Kgs         100.00           n-Hexane         160 Litrs         64.00           Hydroquinone (Imported)         25 Kgs         1150.00           Isopropyl Alcohol         160 Kgs         160.00           Isopropyl Alcohol (Refill)         160 Kgs         135.00           Maleic Anhydride         25 Kgs         110.00           Methyl Ethyl Ketone         160 Kgs         165.00           Methyl Isobutyl Ketone         160 Kgs         155.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         48.00           Mineral Turpentine Oil         50 Kgs         105.00           Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00          | EDTA Acid                       | 25 Kgs    | 248.00  |
| Ethyl Acetate         185 kgs         102.00           Ethylene Dichloride         200 Kgs         60.00           Ethylene Glycol-mono         230 Kgs         63.00           Formaldehyde         65 Kgs         28.00           Formic Acid         35 Kgs         68.00           Formic Acid         250 Kgs         64.00           Hexamine – Tech         50 Kgs         100.00           n-Hexane         160 Litrs         64.00           Hydroquinone (Imported)         25 Kgs         1150.00           Isopropyl Alcohol         160 Kgs         160.00           Isopropyl Alcohol (Refill)         160 Kgs         135.00           Maleic Anhydride         25 Kgs         110.00           Methyl Ethyl Ketone         166 Kgs         117.00           Methyl Isobutyl Ketone         160 Kgs         165.00           Methyl Isobutyl Ketone (Refill)         160 Kgs         54.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         105.00           Mineral Turpentine Oil         50 Kgs         105.00           Mitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs | EDTA Disodium                   | 25 Kgs    | 228.00  |
| Ethylene Dichloride         200 Kgs         60.00           Ethylene Glycol-mono         230 Kgs         63.00           Formaldehyde         65 Kgs         28.00           Formic Acid         35 Kgs         68.00           Formic Acid         250 Kgs         64.00           Hexamine – Tech         50 Kgs         100.00           n-Hexane         160 Litrs         64.00           Hydroquinone (Imported)         25 Kgs         1150.00           Isopropyl Alcohol         160 Kgs         160.00           Isopropyl Alcohol (Refill)         160 Kgs         135.00           Maleic Anhydride         25 Kgs         110.00           Methyl Ethyl Ketone         166 Kgs         117.00           Methyl Isobutyl Ketone         160 Kgs         165.00           Methyl Isobutyl Ketone (Refill)         160 Kgs         54.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         105.00           Mineral Turpentine Oil         50 Kgs         105.00           Mitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00   | EDTA Tetrasodium                | 25 Kgs    | 228.00  |
| Ethylene Glycol-mono         230 Kgs         63.00           Formaldehyde         65 Kgs         28.00           Formic Acid         35 Kgs         68.00           Formic Acid         250 Kgs         64.00           Hexamine – Tech         50 Kgs         100.00           n-Hexane         160 Litrs         64.00           Hydroquinone (Imported)         25 Kgs         1150.00           Isopropyl Alcohol         160 Kgs         160.00           Isopropyl Alcohol (Refill)         160 Kgs         135.00           Maleic Anhydride         25 Kgs         110.00           Methyl Ethyl Ketone         166 Kgs         117.00           Methyl Isobutyl Ketone         160 Kgs         165.00           Methyl Isobutyl Ketone (Refill)         160 Kgs         54.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         48.00           Mineral Turpentine Oil         50 Kgs         105.00           Mitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00           Oleic Acid         50 Kgs         135.00   | Ethyl Acetate                   | 185 kgs   | 102.00  |
| Formaldehyde         65 Kgs         28.00           Formic Acid         35 Kgs         68.00           Formic Acid         250 Kgs         64.00           Hexamine – Tech         50 Kgs         100.00           n-Hexane         160 Litrs         64.00           Hydroquinone (Imported)         25 Kgs         1150.00           Isopropyl Alcohol         160 Kgs         160.00           Isopropyl Alcohol (Refill)         160 Kgs         135.00           Maleic Anhydride         25 Kgs         110.00           Methyl Ethyl Ketone         166 Kgs         117.00           Methyl Isobutyl Ketone         160 Kgs         165.00           Methyl Isobutyl Ketone (Refill)         160 Kgs         155.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         48.00           Mineral Turpentine Oil         50 Kgs         105.00           Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00  | Ethylene Dichloride             | 200 Kgs   | 60.00   |
| Formic Acid         35 Kgs         68.00           Formic Acid         250 Kgs         64.00           Hexamine – Tech         50 Kgs         100.00           n-Hexane         160 Litrs         64.00           Hydroquinone (Imported)         25 Kgs         1150.00           Isopropyl Alcohol         160 Kgs         160.00           Isopropyl Alcohol (Refill)         160 Kgs         135.00           Maleic Anhydride         25 Kgs         110.00           Methyl Ethyl Ketone         166 Kgs         117.00           Methyl Isobutyl Ketone         160 Kgs         165.00           Methyl Isobutyl Ketone (Refill)         160 Kgs         155.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         48.00           Mineral Turpentine Oil         50 Kgs         105.00           Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00  | Ethylene Glycol-mono            | 230 Kgs   | 63.00   |
| Formic Acid         250 Kgs         64.00           Hexamine – Tech         50 Kgs         100.00           n-Hexane         160 Litrs         64.00           Hydroquinone (Imported)         25 Kgs         1150.00           Isopropyl Alcohol         160 Kgs         160.00           Isopropyl Alcohol (Refill)         160 Kgs         135.00           Maleic Anhydride         25 Kgs         110.00           Methyl Ethyl Ketone         166 Kgs         117.00           Methyl Isobutyl Ketone         160 Kgs         165.00           Methyl Isobutyl Ketone (Refill)         160 Kgs         155.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         48.00           Mineral Turpentine Oil         50 Kgs         105.00           Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00   | Formaldehyde                    | 65 Kgs    | 28.00   |
| Hexamine - Tech   50 Kgs   100.00   | Formic Acid                     | 35 Kgs    | 68.00   |
| n-Hexane         160 Litrs         64.00           Hydroquinone (Imported)         25 Kgs         1150.00           Isopropyl Alcohol         160 Kgs         160.00           Isopropyl Alcohol (Refill)         160 Kgs         135.00           Maleic Anhydride         25 Kgs         110.00           Methyl Ethyl Ketone         166 Kgs         117.00           Methyl Isobutyl Ketone         160 Kgs         165.00           Methyl Isobutyl Ketone (Refill)         160 Kgs         155.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         48.00           Mineral Turpentine Oil         50 Kgs         105.00           Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00   | Formic Acid                     | 250 Kgs   | 64.00   |
| Hydroquinone (Imported)         25 Kgs         1150.00           Isopropyl Alcohol         160 Kgs         160.00           Isopropyl Alcohol (Refill)         160 Kgs         135.00           Maleic Anhydride         25 Kgs         110.00           Methyl Ethyl Ketone         166 Kgs         117.00           Methyl Isobutyl Ketone         160 Kgs         165.00           Methyl Isobutyl Ketone (Refill)         160 Kgs         155.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         48.00           Mineral Turpentine Oil         50 Kgs         105.00           Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00           Oleic Acid         50 Kgs         135.00   | Hexamine – Tech                 | 50 Kgs    | 100.00  |
| Isopropyl Alcohol   160 Kgs   160.00  | n-Hexane                        | 160 Litrs | 64.00   |
| Isopropyl Alcohol (Refill)       160 Kgs       135.00         Maleic Anhydride       25 Kgs       110.00         Methyl Ethyl Ketone       166 Kgs       117.00         Methyl Isobutyl Ketone       160 Kgs       165.00         Methyl Isobutyl Ketone (Refill)       160 Kgs       155.00         Methylene Dichloride       250 Kgs       54.00         Methylene Dichloride (Refill)       250 Kgs       48.00         Mineral Turpentine Oil       50 Kgs       105.00         Monochloro Phenol       50 Kgs       120.00         Nitrobenzene       200 Kgs       115.00         Octanol (2-ethylhexanol)       160 Kgs       135.00         Oleic Acid       50 Kgs       135.00   | Hydroquinone (Imported)         | 25 Kgs    | 1150.00 |
| Maleic Anhydride         25 Kgs         110.00           Methyl Ethyl Ketone         166 Kgs         117.00           Methyl Isobutyl Ketone         160 Kgs         165.00           Methyl Isobutyl Ketone (Refill)         160 Kgs         155.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         48.00           Mineral Turpentine Oil         50 Kgs         105.00           Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00           Oleic Acid         50 Kgs         135.00   | Isopropyl Alcohol               | 160 Kgs   | 160.00  |
| Methyl Ethyl Ketone         166 Kgs         117.00           Methyl Isobutyl Ketone         160 Kgs         165.00           Methyl Isobutyl Ketone (Refill)         160 Kgs         155.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         48.00           Mineral Turpentine Oil         50 Kgs         105.00           Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00           Oleic Acid         50 Kgs         135.00  | Isopropyl Alcohol (Refill)      | 160 Kgs   | 135.00  |
| Methyl Isobutyl Ketone         160 Kgs         165.00           Methyl Isobutyl Ketone (Refill)         160 Kgs         155.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         48.00           Mineral Turpentine Oil         50 Kgs         105.00           Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00           Oleic Acid         50 Kgs         135.00   | Maleic Anhydride                | 25 Kgs    | 110.00  |
| Methyl Isobutyl Ketone (Refill)         160 Kgs         155.00           Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         48.00           Mineral Turpentine Oil         50 Kgs         105.00           Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00           Oleic Acid         50 Kgs         135.00   | Methyl Ethyl Ketone             | 166 Kgs   | 117.00  |
| Methylene Dichloride         250 Kgs         54.00           Methylene Dichloride (Refill)         250 Kgs         48.00           Mineral Turpentine Oil         50 Kgs         105.00           Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00           Oleic Acid         50 Kgs         135.00  | Methyl Isobutyl Ketone          | 160 Kgs   | 165.00  |
| Methylene Dichloride (Refill)         250 Kgs         48.00           Mineral Turpentine Oil         50 Kgs         105.00           Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00           Oleic Acid         50 Kgs         135.00   | Methyl Isobutyl Ketone (Refill) | 160 Kgs   | 155.00  |
| Mineral Turpentine Oil         50 Kgs         105.00           Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00           Oleic Acid         50 Kgs         135.00   | Methylene Dichloride            | 250 Kgs   | 54.00   |
| Monochloro Phenol         50 Kgs         120.00           Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00           Oleic Acid         50 Kgs         135.00  | Methylene Dichloride (Refill)   | 250 Kgs   | 48.00   |
| Nitrobenzene         200 Kgs         115.00           Octanol (2-ethylhexanol)         160 Kgs         135.00           Oleic Acid         50 Kgs         135.00  | Mineral Turpentine Oil          | 50 Kgs    | 105.00  |
| Octanol (2-ethylhexanol)         160 Kgs         135.00           Oleic Acid         50 Kgs         135.00  | Monochloro Phenol               | 50 Kgs    | 120.00  |
| Oleic Acid 50 Kgs 135.00  | Nitrobenzene                    | 200 Kgs   | 115.00  |
|   | Octanol (2-ethylhexanol)        | 160 Kgs   | 135.00  |
| Oxalic Acid (Punjab) 50 Kgs 74.00   | Oleic Acid                      | 50 Kgs    | 135.00  |
|   | Oxalic Acid (Punjab)            | 50 Kgs    | 74.00   |

| Paraffin Wax ( White)    | 50 Kgs    | 123.00 |
|--------------------------|-----------|--------|
| Para formaldehyde 91%    | 25 Kgs    | 115.00 |
| Perchloroethylene        | 320 Kgs   | 155.00 |
| Phenyl Liquid            | 230 Kgs   | 120.00 |
| Phthalic anhydride       | 25 Kgs    | 115.00 |
| Pine Oil 22%             | 200 Litrs | 110.00 |
| Pine Oil 40%             | 200 Litrs | 190.00 |
| Polyethelene Glycol 400  | 230 Kgs   | 118.00 |
| Polyethelene Glycol 600  | 230 Kgs   | 140.00 |
| Propylene Glycol         | 215 Kgs   | 125.00 |
| Poly Aluminium Chloride  | 25 Kgs    | 36.00  |
| Red Lead                 | 50 Kgs    | 220.00 |
| Renine                   | 180 Kgs   | 72.00  |
| Rosin                    | 17 Kgs    | 125.00 |
| Sodium Acetate           | 50 Kgs    | 32.00  |
| Sodium Benzoate          | 50 Kgs    | 105.00 |
| Sorbitol                 | 250 Kgs   | 50.00  |
| Stearic Acid ( cosmetic) | 50 Kgs    | 130.00 |
| Styrene Monomer          | 185 Kgs   | 115.00 |
| Terpeneol Perfumery      | 25 Litrs  | 260.00 |
| Thiourea                 | 25 Kgs    | 250.00 |
| Toluene                  | 200 Ltrs  | 123.00 |
| Trichloroethylene        | 280 Kgs   | 110.00 |
| Triethanolamine          | 210 Kgs   | 115.00 |
| Vinyl Acetate Monomer    | 185 Kgs   | 115.00 |
| Xylene Mixed             | 185 Kgs   | 108.00 |
| O-Xylene                 | 185 Kgs   | 118.00 |
|                          |           |        |

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

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

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









# **Buy Enquiries**

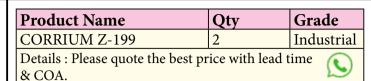
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| Product Name  | Qty     | Grade      |  |
|---|---------|------------|--|
| Perfume   | 10 Kgs  | Industrial |  |
| Dye   | 10 Ltrs | Industrial |  |
| Optical Brightener                                      | 10 Kgs  | Industrial |  |
| Enzyme  | 10 Ltrs | Industrial |  |
| Mikon ATC - activator this is a brand name              | 10 Kgs  | Industrial |  |
| Bavhibit AM   | 10 Kgs  | Industrial |  |
| Na4EDTA   | 10 Kgs  | Industrial |  |
| PBS4 -sodium perborate tetra                            | 10 Kgs  | Industrial |  |
| Citric Acid   | 10 Kgs  | Industrial |  |
| SMF / 3   | 10 Ltrs | Industrial |  |
| Teric GN9   | 10 Ltrs | Industrial |  |
| LABS powder   | 10 Ltrs | Industrial |  |
| STP   | 10 Ltrs | Industrial |  |
| Soda Ash  | 10 Kgs  | Industrial |  |
| Sodium Sulphate   | 10 Kgs  | Industrial |  |
| Details: quote the best price with lead time COA & MSDS |         |            |  |

| Product Name                          | Qty         | Grade  |
|---------------------------------------|-------------|--------|
| H.D.P.E. BEND 160 MM (6")             |             |        |
| PRESSURE - 6 KGS AS PER               | 3 Nos       | None   |
| MAKE JAIN /KOTHARI                    |             |        |
| H.D.P.E. TAIL PIECE LONG 160          |             |        |
| MM (6") PRESSURE - 6 KGS              | 8 Nos       | None ( |
| MAKE JAIN /KOTHARI                    |             |        |
| H.D.P.E. PIPE 160 MM (6") PRES-       |             |        |
| SURE - 6 KGS AS PER MAKE              | 24 Mtrs     | None   |
| JAIN /KOTHARI                         |             |        |
| H.D.P.E. ELBOW 200 NB PRES-           | 3 Nos       | None   |
| SURE - 6 KGS, AS PER 3 NOS            | 3 NOS       | None   |
| H.D.P.E. LONG STUB END 200            |             |        |
| NB PRESSURE - 6 KGS AS PER            | 10 Nos      | None   |
| IS:4984:1995 MAKE KOTHARI             |             |        |
| H.D.P.E. PIPE 200 NB PRES-            |             |        |
| SURE - 6 KGS, GRADE - PE-             | 54 Mtrs     | None   |
| 100 AS PER IS:4984:1995 Make          | 34 MIII8    | None   |
| KOTHARI                               |             |        |
| Details : Please quote the best price | with lead t | ime    |

| Product Name                  | <u> </u> | Qty         | Grade      |
|-------------------------------|----------|-------------|------------|
| Cyclohexyl Chloride           |          | 3000 Kgs    | Industrial |
| Details: Please quote the bes | t price  | with lead t | ime COA &  |
| MSDS                          | _        |             |            |

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



| <b>Product Name</b>     | Qty           | Grade      |
|-------------------------|---------------|------------|
| Mineral Hydrocarbon Oil | 500<br>Tonnes | Industrial |

Details: Parameters Required 0.810 to 0.820 Density

| Density 30 to 40 Flash |   |       |         |
|------------------------|---|-------|---------|
|                        |   |       |         |
| <b>Product Name</b>    |   | Qty   | Grade   |
| Allyl Chloride 99% //  | • | 1 Can | Virgin- |

1 Can

Pure

Details: We need the material

107-05-1 // A43930

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

| Product Name | 0        | Qty     | Grade      |
|--------------|----------|---------|------------|
| TALL OIL     | <u> </u> | 1 Tones | Industrial |

Details: Please inform best price, also please share it's GC & lab analysis report & it's COA.

| <b>Product Name</b>                       | Qty     | Grade      |
|---|---------|------------|
| Methacryloyl Chloride CAS#<br>:- 920-46-7 | 500 Kgs | Industrial |

Details: Please share your best offer on basis FOR Ahmedabad along with the COA, delivery time, packing detail and payment terms.

| <b>Product Name</b>                    | Qty     | Grade      |
|--|---------|------------|
| Methacryloyl Chloride CAS# :- 920-46-7 | 500 Kgs | Industrial |

Details: Please share your best offer on basis FOR Ahmedabad along with the COA, delivery time, packing detail and payment terms.

| <b>Product Name</b>                   | Qty    | Grade      |   |
|---------------------------------------|--------|------------|---|
| Succinic Acid 99%-food grade chemical | 80 Kgs | Industrial | Q |
| Details · Food Grade Chemi            | cal    |            |   |

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# **Buy Enquiries**

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| <b>Product Name</b> |   | Qty  | Grade |
|---------------------|---|------|-------|
| Soda Ash            | • | 5000 | A 227 |
| Soua Asii           |   | Kgs  | Any   |

Details: Please quote the best price with lead time & COA

| <b>Product Name</b>                      |          | Qty         | Grade      |
|--|----------|-------------|------------|
| Cyclopentyl Chloride<br>Cas no: 930-28-9 | <b>©</b> | 5000<br>Kgs | Industrial |

Details: Cyclopentyl Chloride Cas no: 930-28-9

| <b>Product Name</b>                               | Qty       | Grade        |
|---|-----------|--------------|
| Sodium Nitrate (By-Product)-60% Cas no: 7631-99-4 | 30 Tonnes | Industrial 🕓 |

Details: Please quote the best price with lead time & COA.

| <b>Product Name</b>                       |   | Qty         | Grade      |
|---|---|-------------|------------|
| Sertraline IP grade<br>Pigments Chemicals | Q | 5<br>Tonnes | Industrial |

Details: IP Grade, Please quote the best price with lead time & COA.

| Product Name                  | Qty     | Grade | e |   |
|-------------------------------|---------|-------|---|---|
| Methacrylic Acid // 79-41-4   | 1 Drums | None  |   | \ |
| Details: Leads Fro: BHUMICHEM | [       |       |   | J |

| Product Name             | Qty    | Grade      |
|--------------------------|--------|------------|
| Concentrated Nitric Acid | 10     | Industrial |
| 98% Cas no: 7697-37-2    | Tonnes |            |

Details: Please quote the best price with lead time & COA.

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

| Qty      | Grade      |
|----------|------------|
| 3 Tonnes | Industrial |
|          | <u> </u>   |

Details: Regular every Month. Please quote the best price with lead time & COA.

| <b>Product Name</b>                       |          | Qty    | Grade      |
|---|----------|--------|------------|
| Gemcitabine HCL IP<br>Cas no: 122111-03-9 | <b>©</b> | 13 Kgs | Industrial |

Details: quote the best price with lead time & COA.

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

| <b>Product Name</b>   | Qty | Grade |
|---|-----|-------|
| Ethyl 3-(2-(((4-cyanophenyl) a mino) methylyl)-1- methyl-N-(pyridin-2-yl)-1 H-benzo[d] imidazole-6-carboxamido) propanoate CAS#:- 211915-84-3 |     | None  |

Details: Need this Dabigatran intermediate for trial purpose.

| <b>Product Name</b>                                     | Qty     | Grade      |
|---|---------|------------|
| Bromoacetaldehyde Dimethyl<br>Acetal CAS NO:- 7252-83-7 | 500 Kgs | Industrial |

Details: We have the following requirement kindly send your best offer for the same with the lead time and specifications.



| Product Name                                | Qty   | Grade           |
|---|-------|-----------------|
| Allyl Chloride 99% //<br>107-05-1 // A43930 | 1 Can | Virgin-<br>Pure |
| Details · We need the material              |       |                 |

| <b>Product Name</b>          | Qty     | Grade |
|------------------------------|---------|-------|
| Aminomethane CAS#:- 77-86-1  | 4 Tones | None  |
| Details : Pharma application |         |       |

| Product Name | Qty     | Grade      |
|--------------|---------|------------|
| TALL OIL     | 1 Tones | Industrial |

Details: Please inform best price, also please share it's GC & lab analysis report & it's COA.

| <b>Product Name</b>                    | Qty     | Grade      |
|--|---------|------------|
| Methacryloyl Chloride CAS# :- 920-46-7 | 500 Kgs | Industrial |

Details: Please share your best offer on basis FOR Ahmedabad along with the COA, delivery time, packing detail and payment terms.



| <b>Product Name</b>                    | Qty     | Grade      |
|--|---------|------------|
| Methacryloyl Chloride CAS# :- 920-46-7 | 500 Kgs | Industrial |

Details: Please share your best offer on basis FOR Ahmedabad along with the COA, delivery time, packing detail and payment terms.

| <b>Product Name</b>                   | Qty    | Grade      |  |
|---------------------------------------|--------|------------|--|
| Succinic Acid 99%-food grade chemical | 80 Kgs | Industrial |  |
| Details · Food Grade Chemical         |        |            |  |







# **Buy Enquiries**

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| <b>Product Name</b>           |   | Qty   | Grade      |
|-------------------------------|---|-------|------------|
| Sodium Thiosulphate<br>Powder | Q | 5 Kgs | Industrial |
| Details: Photo cleaning       |   |       |            |

| Details : Photo cleaning                            |          |                  |
|---|----------|------------------|
| Product Name  | Qty      | Grade            |
| Nateglinide API [ENA16381]                          | 20 Kgs   | Industrial       |
| Paroxetine HCl<br>Hemihydrate API                   | 700 Kgs  | Industrial       |
| Flurbiprofen API                                    | 5 Tonnes | Industrial       |
| Purified Water (Cas no:- 7732-18-5)                 | 200 Ltrs | Industrial       |
| Methanol (Cas no:- 67-56-1)                         | 200 Ltrs | Industrial       |
| HCL (Cas no:- 7647-01-0)                            | 50 Ltrs  | Industrial       |
| Di-methyl Formmide (Cas no:-68-12-2)                | 2 Kgs    | Industrial       |
| Copper(II) Acetate Mono Hydrate (Cas no:- 142-71-2) | 5 Kgs    | Industrial       |
| Sodium Carbonate (Cas no:- 497-19-8)                | 25 Kgs   | Industrial       |
| Toluene (Cas no:- 108-8-3)                          | 200 Ltrs | Industrial       |
| 2,3 Xylidine (Cas no:- 87-62-7)                     | 25 Ltrs  | Industrial       |
| Ortho Chloro Benzonic Acid (Cas no:- 118-91-2)      | 50 Kgs   | Industrial       |
| Isopropyl Alcohol (Cas no:- 67-63-0)                | 200 Ltrs | Industrial       |
| Dimethyl Sulphoxide (Cas no:- 67-68-5)              | 200 Lts  | Indusr-<br>trial |
| N-Methyl Piperazine (Cas no:-109-01-3)              | 50 Ltrs  | Industrial       |
| Ofloxacin Q Acid (Cas no:- 82419-35-0)              | 50 Kgs   | Industrial       |
| Formic Acid (Cas no:- 64-18-6)                      | 25 Kgs   | Industrial       |
| Formaldehyde (Cas no:- 50-00-0)                     | 50 Ltrs  | Industrial       |
| Dichloromethane (Cas no:- 75-09-2)                  | 200 Ltrs | Industrial       |
| Sodium Borohydride (Cas no:-16940-66-2)             | 25 Kgs   | Industrial       |
| Methane Sulfonyl Chloride (Cas no:- 124-63-0)       | 25 Ltrs  | Industrial       |
| Acetic Acid (Cas no:- 64-19-7)                      | 50 Lts   | Industrial       |
| Hydroxylamine hydrochloride (Cas no:- 5470-11-1)    | 25 Kgs   | Industrial       |
| Erythromycin Base (Cas no:- 114- 07-8)              | 25 Kgs   | Industrial       |
| Propionic Anhydride (Cas no:-123-62-6)              | 25 Kgs   | Industrial       |
| Sodium Lauryl Sulphate (Cas no:-151-21-3)           | 25 Kgs   | Industrial       |

| MDC (Cas no:- 75-09-2)               | 200 Kgs                                      | Industrial |
|--------------------------------------|--|------------|
| Stearic Acid (Cas no:- 822-16-2)     | 25 Kgs                                       | Industrial |
| Acetone (Cas no:- 67-64-1)           | 200 Ltrs                                     | Industrial |
| Ammonia (Cas no:- 7664-41-7)         | 50 Kgs                                       | Industrial |
| Hyflow (Cas no:- 61790-53-2)         | 50 Kgs                                       | Industrial |
| Activated Carbon (Cas no:- 7440-     |  |            |
| 44-0)                                | 25 Kgs                                       | Industrial |
| Ethyl Succinyl Chloride (Cas no:-    | 25.17  | т 1 1      |
| 14794-31-1)                          | 25 Kgs                                       | Industrial |
| Sodium Bicarbonate (Cas no:-         | 25 1/  | T 1 ( · 1  |
| 144-55-8)                            | 25 Kgs                                       | Industrial |
| Sodium Hydroxide (Cas no:-           | 25.17  | T 1 1      |
| 1310-73-2)                           | 25 Kgs                                       | Industrial |
| Ethyl Acetate (Cas no:- 141-78-6)    | 200 Ltrs                                     | Industrial |
| Erythromycin thiocynate (Cas no:-    | 50 T/  | T 1 1      |
| 231-723-1)                           | 50 Kgs                                       | Industrial |
| (4R)-3-[(25,5R)-5-(4-Flu-            |  |            |
| orophenyl)-2-[(R)-[(4-               |  |            |
| fluorophenyl) amino]                 |  |            |
| [4-[(trimethylsilyl)oxy]phenyl]      | 500 Kgs                                      | Industrial |
| methyl]-1-oxo-5-[(trimethylsilyl)    |  |            |
| oxy]pentyl]-4-phenyl-2- oxazolidi-   |  |            |
| none (CAS NO:- 27277812-8)           |  |            |
| (-)-1-[(4-Chlorophenyl)phenyl-       |  |            |
| methyl]piperazine; (R)-1(p-Chlo-     | 100.0  | T 1 1      |
| robenzhydryl)piperazine (CAS         | 100 Gms                                      | Industrial |
| NO:- 300543-56-0)                    |  |            |
| 2-[2-[4-[(R)-(4-Chlorophenyl)        |  |            |
| phenylmethyl]-1-piperazinyl]         | 100.0  | 7 1 1      |
| ethoxy]-acetamide (CAS NO:-          | 100 Gms                                      | Industrial |
| 909779-33-5)                         |  |            |
| Levocetirizine Dihydrochloride       | 100.0  | T 1 1      |
| (CAS NO:- 130018-87-0)               | 100 Gms                                      | Industrial |
| 3-(Trifluoromethyl)-5,6,7,8-tet-     | 2000   |            |
| rahydro-triazolopyrazine Hydro-      | 2000   | Industrial |
| chloride (CAS NO:- 762240-92-6)      | Kgs  |            |
| (3R)-N-(tert-Butoxycarbonyl)-        | 2000   |            |
| 3-amino-4-(2,4,5-trifluorophenyl)    | 4-(2.4.5-trifluorophenyl)   2000   Industria |            |
| butanoic (CAS NO:- 486460-00-8)      | Kgs  |            |
| Carbonyl diimidazole (CAS NO:-       | 2000   | т 1 , • 1  |
| 530-62-1)                            | Kgs  | Industrial |
| Details: Chemicals Required for Pro- |  | opment Lab |
| Trials, More quantity required after |  | •          |
|                                      |  |            |

| <b>Product Name</b>             | Qty           | Grade       |
|---------------------------------|---------------|-------------|
| Drums                           | 2000<br>Drums | NA 🕓        |
| Dataile . HDDE drume Canacity 2 | 00 ltr 250    | 1+r 200 1+r |

Details: HDPE drums Capacity 200 ltr, 250 ltr, 300 ltr. Please reply at the earliest. Needed on recurring basis







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# **Buy Enquiries**

| <b>Product Name</b>  |            | Qty     | Grade      |
|--|------------|---------|------------|
| Bromoacetaldehyde<br>Dimethyl Acetal<br>CAS NO:- 7252-83-7 | ( <u>)</u> | 500 Kgs | Industrial |

Details: We have the following requirement kindly send your best offer for the same with the lead time and specifications.

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

| 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.

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

| <b>Product Name</b>   | Qty          | Grade      |
|---|--------------|------------|
| TRANS,TRANS-2,4-HEXADI-<br>ENYL ACETATE<br>(Cas no:- 1516-17-2)<br>(Hs Code:- 29153900) | 10<br>Tonnes | Chemical   |
| Butyllithium 23% in Hexane (Cas no:- 109-72-8)  | 2 Tonnes     | Industrial |

Details: 1) Provide MSDS/Packing certificate. 2) Unit: butyllithium content base 2ton/month, (450L cylinder, 800L Cylinder). Could you give me an estimate of FCL, COA?

| Product Name               | Qty          | Grade      |
|----------------------------|--------------|------------|
| Anti-Foam/Defoamer         | 13<br>Tonnes | Industrial |
| EDTA 48% / CAS#: 6381-92-6 | 3 Tonnes     | Industrial |

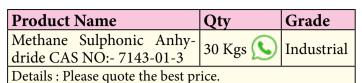
Details: Required for Affluent Treatment Plant, about 30T-40T of 40% EDTA would be required per oiler for cleaning. Payment Terms: On Delivery











| <b>Product Name</b>           |      |    | Qty     | Grade      |
|-------------------------------|------|----|---------|------------|
| 5-Fluorocytosine<br>2022-85-7 | CAS# | :- | 500 Kgs | Industrial |

Otv

Delivery: CIP MUMBAI AIR Descripiton:- Pls send best quote along with delivery period.

**Product Name** 

Manganese Dioxide

| Grade |
|-------|
|       |

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

| <u>(C)</u> |
|------------|
|            |

|  | <b>Product Name</b>                              | Qty        | Grade      |
|--|--|------------|------------|
|  | 1-Iodo-2,2-dimethylpropane<br>CAS# :- 15501-33-4 | 500 Tonnes | Industrial |
| Details: 1. Quote us your best CIF Air (Shanghai, Cl |  |            |            |

price. 2. Advise us the shortest leading time.

3. Attach your recent batch COA for quality approval.

| Product Name   | Qty       | Grade  |
|--|-----------|--------|
| Detergent Solvent "Solvesso 100 (C4 163-180 GOST 10214-78) | 2000 Ltrs | None 🕓 |
| Solvent 646 GOST 18188-72                                  | 90 Ltrs   | None   |

Leads: 1. Technical documentation such as drawings, datasheets and etc./ if applicable 2. All applicable material certificates (COC, MTC, Calibration, etc.,) 3. Exact or approximate packing information and HS codes. 4. Delivery term we prefer FCA or DAP Baku & for EXW term Pick-up Address. 5. Price offer should be valid 1 month. Other Techinical Details:- Color - transparent or yellowish Density at 200C - 0.860 gr./m3 Volatility (based on xylene) - 8 - 15 Sulfur content - 0.020% Ignition temperature (open crucible) - 270C

| Product Name                                |          | Grade |
|---|----------|-------|
| PeCeVis 100 PS // 39069090<br>// MBCC Group | 1 Tonnes | Any 🕓 |
| Leads: Broadways Chemtech                   |          |       |

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

# China Adhesives Markets, Competition Forecast & Opportunities, 2028: Growing Demand from Packaging, Construction, Healthcare Industries

DUBLIN, Nov. 23, 2023 /PRNewswire/ -- The "China Adhesives Market Competition Forecast & Opportunities, 2028" report has been added to ResearchAndMarkets.com's offering.

In 2022, the China Adhesives Market reached a valuation of \$14.56 billion, and it is expected to exhibit robust growth throughout the forecast period, with a Compound Annual Growth Rate (CAGR) of 4.43% projected through 2028 and is expected to reach at \$18.69 billion by 2028.

Adhesives play a pivotal role in diverse sectors, including construction, automotive, and packaging. These adhesives are categorized based on polymer types, such as acrylics, vinyls, polyurethane, and rubber-based adhesives. Water-based adhesives, known for their eco-friendliness and zero Volatile Organic Compound (VOC) emissions,

find applications in labels, packaging, woodworking, textiles, construction, high-pressure laminate bonding, and lightweight systems in the automobile industry.

The adhesive market in China is experiencing significant growth driven by booming infrastructure and construction activities, as well as the expansion of the automotive manufacturing sector. Concerns regarding harmful VOC emissions from solvent-based adhesives are propelling the shift towards biobased alternatives.

Furthermore, continuous advancements in adhesive technologies are expanding their capabilities, including improved bonding strength, faster curing, higher temperature resistance, and enhanced flexibility, thereby widening the range of applications. Technological innovations continue to drive product devel-

opment and customization to meet industry-specific requirements, fostering market growth.

Adhesive manufacturers are also investing in research and development to introduce advanced products with enhanced performance, durability, and efficiency. Continuous innovation enables the development of adhesives that can bond to various substrates, withstand extreme environments, and offer specialized properties. R&D activities play a vital role in expanding application possibilities and enhancing overall product quality, thereby driving market growth.

Read the full report : <a href="https://www.re-searchandmarkets.com/r/w6xo93">https://www.re-searchandmarkets.com/r/w6xo93</a>

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

# Global Tetrahydrofuran Market Report 2023-2028: Polytetramethylene Ether Glycol (PTMEG) Production Boosts, THF's Role in Textile Industry Strengthens Demand

UBLIN, Nov. 22, 2023 /PRNewswire/ -- The "Tetrahydrofuran Market - Global Industry Size, Share, Trends Opportunity, and Forecast, 2028F" report has been added to ResearchAnd-Markets.com's offering.

The global Tetrahydrofuran (THF) market is poised for robust growth, with a projected CAGR of 5.31% through 2028, according to the latest market research report. In 2022, the market was valued at USD 4.36 billion, and it is expected to see significant expansion in the coming

years.

Tetrahydrofuran is a versatile chemical compound characterized by its clear and colorless liquid form and distinctive ethereal odor. It is less dense than water and is commonly used as a solvent









in various industries. Notably, THF is a key solvent in the production of vinyl polymer (PVC), showcasing its importance in the chemical industry.

The production of Tetrahydrofuran involves multiple processes, including carbonylation and hydrogenation of aldehyde, as well as chemical transformation of maleic compounds. However, the most widely accepted method of production is through the dehydration and cyclization of 4-butanediol. Alternative methods such as the dichloro-butane and hydrocarbon reaction methods also contribute to THF production.

One of the significant applications of THF is in the production of Polytetramethylene Ether Glycol (PTMEG),

a crucial raw material for various fibers, especially in the textile industry. The demand for textile fibers, driven by their strength and durability, has led to increased PTMEG production, further bolstering the Tetrahydrofuran Market's growth. Additionally, THF is employed in coatings, varnish production, chemical intermediates, laboratory chemicals, and serves as a reaction medium in the pharmaceutical sector.

While the Tetrahydrofuran Market presents promising growth opportunities, it faces certain challenges, including stringent environmental regulations and the compound's volatile nature. Nevertheless, factors like the surging demand for polyurethane and the rapid expansion of the energy sector are driving the market

forward. The global Tetrahydrofuran Market report provides comprehensive insights into the market's current status and future prospects. It offers a detailed analysis of product types, end uses, production processes, and key players. This report is an invaluable resource for industry consultants, manufacturers, existing market players seeking expansion opportunities, newcomers, and other stakeholders looking to align their strategies with the evolving market trends.

Read the full report : <a href="https://www.re-searchandmarkets.com/r/3mypjy">https://www.re-searchandmarkets.com/r/3mypjy</a>

If you want your report abstract to be published please contact <a href="mailto:info@chemicalmarket.net">info@chemicalmarket.net</a>

# Yaly Couture combines imported and Vietnamese Fabrics for "The Edge of Elegance" Collection

In the ancient town of Hoi An on the banks of the peaceful Hoai River, the collection "The Edge of Elegance" by the Vietnamese brand Yaly in collaboration with a South African designer truly touched the hearts of fashion lovers, not only in Vietnam but worldwide. Here, Miss Vietnam Tieu Vy also received direct support from her mother when being the vedette in her hometown.

PRNewswire/ -- On the evening of December 10, the fashion show with the theme "The Edge of Elegance" officially took place at Song Hoai Square, Hoi An, Vietnam. The collection combined traditional handicraft elements of beading, hand embroidery and modern tailoring techniques to respond to Hoi An's participation in the networks of UNESCO Creative Cities in handicrafts and folk art. Choosing the location to hold the show, Ms. Trinh Diem Quynh - CEO and designer of the Yaly Couture & Custom Tailor brand said: "I want to orga-

nize the show right on the land that Yaly has developed and contribute to pro-

moting the beauty of culture and lifestyle of the people of Hoi An, Vietnam to the world".

"The Edge of Elegance" collection was designed by Ms. Trinh Diem Quynh in collaboration with Casper Bosman. Both poured their heart and soul into each product. In addition, the famous

woman in the textile industry of Hoi An also took on the role of creative director for the show. Not only talented in design, Ms. Trinh Diem Quynh also aim to helping and preserving traditional crafts to bring Vietnamese fashion to the world. Her partner in this show, Casper Bosman is a famous South African designer who created the dress of

Miss World 2014 - Rolene Strauss. His name has appeared in top publications

and television shows as a talented fashion creator in his own country.

The minimalist show stage decorated with white flowers made the collection stand out. The beautiful Kim Nhung was the first model to grace the runway. She greeted the show with a voluminous chiffon dress meticulously embellished with flowers and multi-layered tulle that clearly conveyed the

spirit of Couture.

Read the full report : Yaly Couture & Custom Tailor

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# **News Round Up**

# **AI-Powered Plastic Sorting Project led by** Recycleye, Valorplast, and TotalEnergies Delivers **World First towards Food-Grade Polypropylene Mechanical Recycling**

Brussels, November 21, 2023 - Collaborative research project OMNI directed by Recycleye, Valorplast, and TotalEnergies to enhance the circularity of polypropylene (PP) food packaging led to ground-breaking results. The new technology based on Artificial Intelligence (AI) and computer vision, coupled with an efficient decontamination process, provides a high-performing marketable solution to tackle the challenge of mechanically recycling polypropylene for food-contact applications.

Project OMNI is an innovative project aiming to leverage AI and Machine Learning for the identification and separation of food-grade PP from household post-consumer wastes. It is one of the 7 projects successfully selected in October 2020 by Citeo, a mission-led company reducing the environmental impacts of household packaging and paper, in the framework of a call for projects.

After 18 months of research, Project OMNI led to an alternative to digital and physical marking solutions which require system-wide packaging changes. In a demonstration unit, Recycleye built and trained an AI model based on wastes collected from 5 locations across France supplied and characterized by Valorplast. The AI and robotic sorting achieved a successful pick rate of 50% of the food-grade material, with >95% purity. This sorting activity produced material used for further decontamination on a semi-industrial pilot based on offthe-shelf mechanical recycling technologies. TotalEnergies then leveraged its polymer expertise to produce odorless, clean rPP suitable for high-end packaging applications.

The novel developed process has demonstrated the efficient decontamination of food-grade PP waste sorted by AI and computer vision and opens new

opportunities for circularity of polypropylene packaging.

Nathalie Brunelle, **Senior Vice** President, **Polymers** at TotalEnergies, said: "This project not only demonstrates how cut-

ting-edge technology can improve material circularity, but also paves the way for a wider range of accessible applications for recycled polymers to serve our customers. It provides a

concrete response to the challenge of managing endof-life plastics, and fully supports our ambition of reaching 1 million tons of

> circular polymers".

Victor Dewulf, CEO of Recycleye added "We are extremely excited to see this successful application of our robust AI-powered sorting technology at semi-industrial scale. This application opens the possibility of creating new markets for recycled plastics materials; ultimately chang-

ing the economics of recycling".

"Being able to recycle food-grade PP is a key factor in the establishment of a circular economy for PP packaging. AI is a promising route for achieving this objective" commented Alban Cotard, Sales Quality and Development Manager at Valorplast.











# BASF AND SK ON ENTERED INTO AN AGREEMENT TO EVALUATE COLLABORATION OPPORTUNITIES IN THE GLOBAL LITHIUMION BATTERY MARKET

- Targeted collaboration around cathode active materials
- Focus on North American and Asia-Pacific markets

Losouth Korea – BASF, a globally leading battery materials producer, and SK On, a globally leading electric vehicle battery cell manufacturer, have entered into an agreement to jointly evaluate collaboration opportunities in the global lithium-ion battery market focused on North America and Asia-Pacific. The collaboration brings together strong

business and product development capabilities to develop industry-leading battery materials for lithium-ion batteries.

Initially, BASF and SK On will focus on evaluating collaboration

options for cathode active materials (CAM) production. Further details on the collaboration will be revealed at a later stage.

Additional collaboration opportunities along the battery materials value chain will be evaluated subsequently, including battery recycling. By leveraging their respective expertise, BASF and SK On aim to develop innovative solutions to support their strong growth ambitions.

Sustainability plays a key role for both companies in line with the principles of the "Value Balancing Alliance," which is working on a global standard for measuring a company's social, economic, and environmental contribution and translating environmental and social impacts into comparable financial data.

"With the collaboration with SK On, we are further strengthening our market position to serve battery manufacturers and electric vehicle producers around the world." said Dr. Peter Schuhmacher, President of BASF's Catalysts division, who is also responsible for the company's battery materials and battery recycling business. "We want to address the need for more sustainable solutions for the electric vehicle in-

dustry. And
we are ready
to work with
our customers
and partners
in all regions
to make this a

# reality."

"The collaboration with BASF is part of our efforts to bolster battery materials supply chain," said Jee Dong-seob, President and Chief Executive Officer of SK On. "We look forward to expand our partnership to lead the global EV battery market."

Source: BASF

# ORBIA AND SOLVAY FINALIZE JOINT VENTURE AGREEMENT TO BUILD PVDF PRODUCTION CAPACITY IN NORTH AMERICA FOR LITHIUM-ION BATTERIES

BOSTON, November 2, 2023 - Orbia's Fluorinated Solutions business and Solvay have signed their joint venture agreement to create the largest polyvinylidene fluoride (PVDF) production facilities for battery materials in the North America region. This partnership brings security of supply with Inflation Reduction Act (IRA) compliant materials and leading-edge PVDF technology together for solutions that are critical to the North American electric vehicle (EV) transition. With significant expected growth of the U.S. EV and stationary energy storage market, demand for lithiumion batteries will grow considerably and necessitate a robust, secure and local supply chain. The OrbiaSolvay partnership secures supply of critical minerals and intermediate materials from Orbia. from which Solvay will manufacture suspension-grade PVDF: a lithium-ion binder and separator coating in electric vehicle batteries. Solvay brings process technology and global market knowhow to this venture. In combination, Solvay's Solef® PVDF innovations and Orbia's material assets and production expertise will enable delivery of PVDF that allows electric vehicles to go further on each charge, extends battery life and improves battery safety in turn. Said Ilham Kadri, CEO of Solvay, "We are proud of this important project, which







is a key milestone in our electrification strategy, emphasizing our global commitment to sustainable mobility. Our partnership with Orbia puts us in the driving seat to shore up an independent, sustainable EV battery supply chain in North America and create clean energy jobs." "Our partnership with Solvay underscores our continued commitment to enabling the clean energy transition with our investments in energy materials. Orbia has a unique 'mineto-market' position with integration in key battery materials needed to bolster North America's EV supply chain and be IRAcompliant," said Sameer Bharadwaj, CEO of Orbia. Orbia and Solvay intend to use two production sites: one in Augusta, Georgia for finished products and one in St. Gabriel, Louisiana for raw material conversion to needed intermediates. Both plants are expected to be operational in 2026. The company's participation in this joint venture contributes to the company's overall strategic position as a key supplier of battery materials, including electrolyte salts such as LiPF6, custom electrolyte formulations, specialty battery additives and recycled anodes.

Source: Sorbia

# ORION S.A. LAUNCHES PRINTEX® KAPPA 10, FEEDING HIGH DEMAND IN LITHIUMION BATTERY INDUSTRY

HOUSTON – Orion S.A. (NYSE: OEC), a global specialty chemicals company, today announced the launch of PRINTEX\* kappa 10 – a high-quality conductive additive that will supply surging demand from producers of lithium-ion batteries for electric vehicles, energy storage systems and consumer

applications.

The new product, produced with furnace technology in Europe and eventually in Asia, marks a crucial expansion of Orion's portfolio of conductive additives. The company also makes other kappa grades with the acetylene process. PRINTEX® kappa 10 facilitates a more efficient transfer of electrical energy within lithium-ion batteries. It forms a percolating network that enables the electrons to flow. This enhances the performance and power response during both charging and discharging.

The conductive additive works for both anode and cathode. It is also compatible with lithium-ferrous-phosphate (LFP) batteries, nickel-manganese-cobalt (NMC) and other batteries.

"At Orion, we're focused on products enabling more efficient and powerful lithium-ion batteries that help to decarbonize mobility.

PRINTEX® kappa 10 is a key part of our strategy for expanding our business for such conductive additives,"

Orion CEO Corning Painter said.

"Our strength lies in our dedication to innovation and delivering sustainable solutions for our customers," Painter added. "As the world increasingly turns toward electric mobility, the demand for high-quality conductive additives like PRINTEX® kappa 10 will grow."

Orion invites interested parties to visit the company's website or contact the sales team for more information about PRINTEX® kappa 10.

Source: orion

# LUCAS OIL ANNOUNCES EXPANSION INTO BRAZIL WITH COMERCIAL LUCAR PARTNERSHIP

The move into Brazil opens a new market for the additive and lubricants manufacturer, bringing high-quality products designed to enhance engine efficiency, reduce wear and tear, and protect vital components to consumers in Brazil.



TNDIANAPOLIS, Dec. 1, 2023 / ⚠PRNewswire/ -- Lucas Oil, the world leader and distributor of high-performance automotive additives and lubricants, announced its expansion into the Brazilian market. In a strategic move aimed at bringing high-quality automotive products to customers in Brazil, Lucas Oil has partnered with Comercial Lucar, the country's largest wholesale distributor specializing in distributing lubricants and filters for the automotive, industrial and heavy equipment markets. Comercial Lucar will be the exclusive distributor of Lucas Oil additives in Brazil.

This partnership will introduce the renowned American brand and its top-tier products to the Brazilian market and marks a significant milestone in the company's international strategic









growth plan. Brazil is the world's 10th largest economy and home to more than 83 million automobiles.

"We found the right partner in Lucar," shared Shane **Burns, Vice President of** Sales at Lucas Oil. "Their impressive sales force, professionalism and logistics expertise in the region, which can be challenging because of the sheer geographical size of Brazil, is unmatched. And this expansion presents a tremendous opportunity for Lucas Oil. The average age of light duty vehicles is over ten years, and we are confident that our premium automotive solutions will benefit Brazilian drivers, extending the lives and capabilities of their vehicles and saving them money in the long run."

Starting in November, consumers in Brazil can find select Lucas Oil products at their nearest automotive retailers. Through its partner Lucar, Lucas Oil will also collaborate with smaller auto parts stores to ensure accessibility to a wide range of consumers across the country. The initial product offering will include Lucas Oil's popular general car care and problem solvers such as Heavy Duty Oil Stabilizer, Fuel Treatment, Deep Clean Fuel System Cleaner, Transmission Fix, Octane Booster, Diesel Deep Clean and Engine Oil Stop Leak.

Source: Lucas Oil Products

# **HONEYWELL UNVEILS INNOVATIVE SOLUTIONS TO ADDRESS EV BATTERY FIRES**

T TS-based consumer technology company Honeywell on Monday said it has created innovative solutions to address safety concerns across the spectrum of EV manufacturing and use.

The company said its lithium-ion battery safety sensors help play a crucial role in detecting potential battery fires, which can protect drivers.

"With more than 10 million EVs sold around the world last year, we're seeing how pivotal they are in making the future of sustainable travel a reality," said Sarah Martin, president of Honeywell Sensing & Safety Technologies.

India's EV market is expected to grow at a compound annual growth rate (CAGR) of 49 per cent from 2022 to 2030.

Electric scooter use is also on the rise and more than half of India's three-wheeler vehicle registrations last year were electric, and electric two-wheelers are expected to grow by 27.3 per cent to \$6.1 billion by 2030.

In India, an additional 10 million direct jobs and 50 million allied jobs may be needed in this sector by 2030.

"As a leader in EV and scooter battery safety, we aim to drive the electric mobility revolution in the country by augmenting safety standards, offering innovative ready-now solutions and helping our customers navigate the challenges of the rapidly-evolving electric vehicle market," said Ashish Modi, president, Honeywell India.

Honeywell battery safety sensors, when integrated into EV and scooter battery packs, detect thermal runaway risks, enabling warning of passengers and allowing EV and scooter manufacturers to meet international battery fire safety standards.

Through a strategic alliance with Nexceris, developer of lithium-ion gas detection solutions, Honeywell said it is developing sensors to detect earlier thermal runaway indicators in EV and scooter batteries.

This early intervention can help avoid costly property damage or worse, injury to drivers.

The company also offers electrical safety gear, portable and fixed gas detection technologies and PPE such as gloves, face shields and dielectric boots for high-risk areas like electrode mixing, coating, drying and cell finishing.

Source: The Economic Times

# **EXXONMOBIL DRILLING FIRST** LITHIUM WELL IN **ARKANSAS, AIMS TO BE A LEADING SUPPLIER FOR ELECTRIC VEHICLES BY** 2030

Advanced production approach has potential to unlock vast supplies of lithium in North America









- Domestic sourcing will contribute to energy security, support manufacturing and advance U.S. climate policy objectives - with significantly fewer environmental impacts
- First production targeted for 2027
- Project further demonstrates Exxon-Mobil's leadership in energy transition

supplies of North American lithium with far fewer environmental impacts than traditional mining operations."

In early 2023, ExxonMobil acquired the rights to 120,000 gross acres of the Smackover formation in southern Arkansas - considered one of the most prolific lithium resources of its type in North America.

"South Arkansas is our state's all-around energy capital, producing oil, natural feet underground, ExxonMobil will utilize direct lithium extraction (DLE) technology to separate lithium from the saltwater. The lithium will then be converted onsite to battery-grade material. The remaining saltwater will be re-injected into the underground reservoirs. The DLE process produces fewer carbon emissions than hard rock mining and requires significantly less land.

"This project is a win-winwin," Ammann added. "It's a perfect example of how ExxonMobil can enhance North American energy security, expand supplies of a critical industrial material, and enable the continued reduction of emissions associated with transportation, which is essential to meeting society's net-zero goals."



PRING, Texas--(BUSINESS WIRE)-**)**- Exxon Mobil Corporation (NYSE: XOM) today announced plans to become a leading producer of lithium, a key component of electric vehicle (EV) batteries. Work has begun for the company's first phase of North America lithium production in southwest Arkansas, an area known to hold significant lithium deposits. The product offer will be branded as Mobil Lithium, building on the rich history of deep technical partnership between Mobil and the automotive industry.

"Lithium is essential to the energy transition, and ExxonMobil has a leading role to play in paving the way for electrification," said Dan Ammann, president of ExxonMobil Low Carbon Solutions. "This landmark project applies decades of ExxonMobil expertise to unlock vast gas, and now thanks to investments like ExxonMobil's and their combination of skills and scale, lithium," said Arkansas Governor Sarah Huckabee Sanders. "My administration supports an all-of-theabove energy strategy that guarantees good, high-paying jobs for Arkansans – and we'll continue to cut taxes and slash red tape to make that happen."

Southwest Arkansas has a history as an oil and natural gas producer, and the region's geology is well understood. ExxonMobil is working with local and state officials to enable the successful scale-up of Arkansas' emerging lithium industry.

### **Lithium Production Benefits**

After using conventional oil and gas drilling methods to access lithium-rich saltwater from reservoirs about 10,000

Lithium is essential to the production of lithium-ion batteries, which are used in electric vehicles, consumer electronics, energy storage systems and other clean energy technologies. Demand for lithium is expected to quadruple by 2030, and virtually all lithium today is produced outside of North America.

# Growing Lithium Production and **Low Carbon Solutions**

The company is targeting its first lithium production for 2027 and is evaluating growth opportunities globally. By 2030, ExxonMobil aims to be producing enough lithium to supply the manufacturing needs of well over a million EVs per year. Discussions with potential customers, including EV and battery manufacturers, are ongoing.

Source: Exxon Mobil





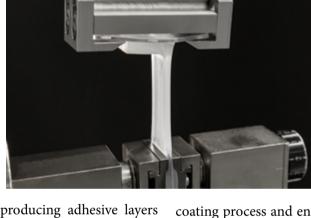




# WACKER PRESENTS HIGHLY ADHESIVE SILICONE GEL FOR FIXING ELECTRONIC COMPONENTS

Munich, Nov 13, 2023 At this year's COMPAMED medical technology trade show, WACKER is showcasing a range of silicone products for medical

applications. One of the highlights is the highly adhesive silicone gel SILPURAN\* 2124 which is making its debut at the trade fair. This silicone adhesive is



suitable for producing adhesive layers required for atraumatic wound dressings and for fixing so-called wearables and other devices worn on the skin. Also in the spotlight is a selection of ELASTO-SIL® eco solid and liquid silicone rubber grades, which are produced on the basis of biomethanol by a resource-efficient process. The company will also present ELASTOSIL® LR 3078 liquid silicone rubber, which is self-adhesive to polycarbonate and other high-performance plastics. COMPAMED takes place from November 13 to 16 as part of the MED-ICA trade fair in Düsseldorf, Germany.

SILPURAN® silicone adhesives have a proven track record over many years for bonding atraumatic wound dressings. With SILPURAN® 2124, WACKER is expanding its line of silicone adhesives to include a silicone gel that adheres exceptionally strongly to the skin yet allows gentle and pain-free removal.

SILPURAN® 2124 achieves an adhesive force of 6.0 newtons per 2.5 centimeters, determined in the 90° pull-off test on steel in accordance with EN 1639. This makes the adhesion so strong that the new gel can not only be used in wound care, but is also suitable for other skin fixation applications. For example, SIL-PURAN® 2124 can be used to produce adhesive layers or tapes for fixing wearables, i.e. sensors, catheters, cannulas or other medical devices and equipment, to the skin for short or medium wear times.

The new product is a transparent, two-component low-viscosity silicone gel. At 3000 millipascal seconds, it has a viscosity that is optimally matched to the

coating process and enables simple and fast dosing. SILPURAN® 2124 crosslinks by a platinum-catalyzed addition reaction to form a soft, highly flexible and elastic silicone with a gellike consistency. The cured rubber is water repellent, but breathable and gentle to the skin; it does not cause skin irritation or allergic effects. In addition, SILPURAN® 2124 is biocompatible according to selected tests in accordance with ISO 10993 and USP, Chapter<88>, Class VI. The adhesive can be sterilized with ethylene oxide.

SILPURAN® 2124 leaves no residue on the skin when it is removed. Moreover, fixation aids and wound dressings can be freely peeled off and reapplied. The adhesive layer combines well with certain polyethylene release films, which protect the adhesive layer in the final ready-to-use product. These release films can be removed without leaving any residue before application, and the release force remains unchanged even after several months of storage.

Conserving resources: ELASTOSIL® eco Also in the spotlight at WACKER's booth will be a number of bio-methanol-based solid and liquid silicone rubber grades. WACKER markets these products under the brand name ELASTOSIL® eco. For production, the company uses a mass balance approach that has been certified by TÜV Nord to the REDcert² standard and is audited annually. The use of biomethanol in upstream silicone manufacturing processes helps conserve fossil resources.

Since methanol from fossil sources and biomethanol are chemically identical, ELASTOSIL\* eco products have the same processing and end properties as their conventional counterparts. Processors purchasing such eco products receive a certificate verifying that the silicone they have purchased conserves fossil resources.

Among the ELASTOSIL® eco products currently available are several silicone rubber grades that are important for medical technology applications. These include the non post-cure and tear-resistant liquid silicone rubber ELASTOSIL® eco LR 5040 (hardness grades 20 to 70 Shore A), the peroxide-curing solid silicone rubber ELASTOSIL® eco R 401, and the addition-curing solid silicones ELASTOSIL® eco R plus 4305 and ELASTOSIL® eco R plus 4020.

- ELASTOSIL® eco LR 5040 is processed by injection molding. Typical application areas are babycare articles such as pacifiers, baby bottle nipples and anti-colic valves, but also medical products such as respiratory masks.
- Compression molded and extruded articles can be produced using









the ELASTOSIL® eco R 401 product range, whereas the ELASTOSIL® eco R plus 4305 grade has been optimized for extrusion and enables the production of hoses and profiles. The addition-curing silicone rubber ELASTOSIL® eco R plus 4020 is particularly suitable for the production of extremely tear-resistant molded parts that may come into contact with food.

#### ELASTOSIL® LR 3078 – Self-Adhesive on Polycarbonate and other High-Performance Plastics

Another highlight at the WACKER booth is ELASTOSIL® LR 3078. This self-adhesive liquid silicone rubber cures rapidly and establishes a firm bond with polycarbonate thermoplastics. The adhesion system developed by WACKER is free of bisphenol A structures. The cured rubber products have been tested for biocompatibility.

All grades of the ELASTOSIL® LR 3078 product range can be easily processed together with polycarbonate in a two-component injection molding process to produce hard-soft combinations. They pave the way to cost-effective large-scale production of respiratory and anesthesia masks, drug delivery systems or devices for minimally invasive examinations and operations.

ELASTOSIL\* LR 3078 is available from 20 to 70 Shore A. According to recent studies, the product shows good adhesion properties not only to polycarbonate, but also to many other high-performance plastics that were previously difficult to process using 2K methods. Examples include polyphenylene ether (PPE), polysulfone (PSU), polyether sulfone (PESU), polyphenyl sulfone (PPSU), and polyether imide (PEI).

Source: Waker

### **UNITHER**

# PHARMACEUTICALS INTRODUCES A NEW STICK-PACK MOUTHWASH FOR THE CHINESE MARKET

Through the collaboration between Unither Pharmaceuticals' plants in Colomiers (France) and Wuhan (China), the company developed and manufactured mouthwash sticks for its customer: Shenzhen Daphne.

The mouthwash, classified as a cosmetic product, is available in a volume of 15\*10ml using the stick-pack technology. The mouthwash stick-pack is assembled using several components that work together to guarantee and ensure the stability of the product over time. Odontological Control

The clinical and odontological tolerance as well as the acceptability in the normal conditions of use were evaluated under the control of a dermatologist. This allowed to highlight an "excellent odontological tolerance on gums and teeth" as well as more than 85% of positive answers to the main claims of fresh breath and healthy mouth feeling. – Dr Michel Riche

#### Benefits of the Liquid Stick-Pack

According to the CDMO, patient safety is their top priority: "We've taken patient experience to heart. Our advanced formulation addresses taste masking and reduces or eliminates the need for preservatives. This ensures not only better efficacy but also a more pleasant experience for patients, making their treatment journey smoother."

The ready-to-use Stick-pack ensures accurate dosing, minimising the risk of errors commonly associated with traditional medication packaging. With clear instructions and a user-friendly design,

patients can administer their medication safely.

Achieving the right dosage is crucial for effective treatment. The Stick-pack technology precisely measures and delivers the correct dose every time, eliminating misuse and ensuring consistent therapeutic outcomes. Ready-to-use, robust and easy to carry, it is designed for modern lifestyles. There is no need for measuring cups or extra containers. This technology guarantees good product conservation and stability. Stick-pack design assembles multiple components to guarantee the integrity and longevity of the medication, maintaining its effectiveness over time.

#### **Manufacturing Site**

**Unither Liquid Manufactur**ing, located in Colomiers, France, has been providing solutions globally since its establishment in 1985. With a dedicated team of more than 200 employees, the company operates with a large production capacity, employing high-speed lines for the manufacturing of stick-packs. The facility also includes an R&D pilot workshop, demonstrating company's commitment to innovation Wand continuous improvement. Furthermore, Unither Liquid Manufacturing holds European ANSM cGMP certification, ensuring that its operations adhere to rigorous quality standards set by regulatory authorities.

Source: Pharmaceutical Technology





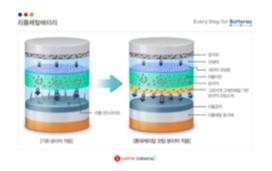




# LOTTE CHEMICAL DEVELOPES SEPARATING COATING MATERIAL TECHNOLOGY FOR IMPROVING STABILITY OF LITHIUM METAL ANODE MATERIAL FOR NEXT-GENERATION BATTERIES

 Development of Korea's first 'separator coating material manufacturing technology' based on polymer sol-

id electrolyte to solve instability issues of lithium metal anodes for next-generation semisolid/all-solid-state lithium metal batteries, and completed patent application



- Possible to save on investment costs when producing semisolid/all-solid-state batteries using the existing lithium-ion battery manufacturing process
- Constructed research cooperation relations through share investment and JDA (joint R&D agreement) in the US lithium metal anode development startup 'SOELECT' in 2021... Accelerating efforts on collaboration and commercialization of technological development related to lithium metal batteries with high energy density and stability compared to existing lithium-ion batteries

 Technology Institute Director Hwang Min-jae, "By promptly securing core battery technologies using the future material technologies of LOTTE Chemical, we will actively pioneer the global battery material market and pioneer the relevant market"

Lit developed Korea's first 'separator coating material manufacturing technology' based on polymer solid electrolyte to solve instability issues of lithium metal anodes used in next-generation semisolid/all-solid-state lithium metal batteries, and completed patent application of this.

This technology is characterized by improving the durability of lithium battery materials by suppressing dendrite (phe-

n o m e n o n where needle-shapes generate from lithium, crystallization of shapes that reduce battery activities) by coating function-

al materials on the lithium metal battery separator to improve the flow of lithium ions.

Through this, it is possible to secure long-term stability and durability of lithium metal anodes, and it displayed over 90% capacity conservation rate at 500 cycles, and therefore, approximately 30% or higher durability improvement effects compared to non-coated separators can be expected.

Using this technology can make it possible to use manufacturing equipment applied in existing lithium-ion batteries, thus saving on investment costs when constructing next-generation semisol-

id/all-solid-state lithium metal battery production facilities.

Since making share investments and JDA (joint R&D agreement) with 'SOELECT', a US startup that develops lithium metal anodes in 2021, LOTTE Chemical developed and applied technologies related to semisolid/all-solid-state lithium metal batteries that are said to be 'next-generation batteries' due to its high energy density and stability compared to existing lithium-ion batteries through about two years of joint research.

LOTTE Chemical is currently conducting tests for application of the technology with domestic and overseas lithium metal battery companies and plans to additionally build cooperative relationships with specialized research institutes. By doing so, it plans to pioneer markets where lithium metal anodes can be applied and accelerate commercialization of lithium metal batteries.

Technology Institute Director Hwang Min-jae stated, "By promptly securing core battery technologies using the future material technologies of LOTTE Chemical, we will actively pioneer the global battery material market and pioneer the relevant market."

SOELECT CEO Cho Sung-jin commented, "Through the joint R&D with LOTTE Chemical, we developed polymer electrolytes for prolonging the life of high-capacity lithium metal anodes and the material and process technologies for applying this, and we will also speed up commercialization of highly stable lithium metal batteries through various cooperation."

Last year, LOTTE Chemical newly organized the 'Battery Material Business Team' and has been actively









expanding the capacities of the battery material business as part of its plans for new growth engines. The mechanical completion of the highly pure ethylene carbonate (EC) and demethyl carbonate (DMC) production facilities, which are electrolyte organic solvents for EV batteries at the Daesan Plant by the second half of this year.

LOTTE Chemical plans to grow into a core enterprise for the global supply chain of EV-battery-materials through systematic and proactive investments and incubating in preparation for the future increase in demand for EVs and expansion of renewable energy.

Source: Lotte Chemical

TORAY APPLIES
MARKET-LEADING
LETTERPRESS
TECHNOLOGY TO
DEVELOP PRINTING
INDUSTRY'S FIRST
FULLY WATER
DEVELOPABLE
FLEXOGRAPHIC PLATE

Tokyo, Japan, November 28, 2023 – Toray Industries, Inc., announced today that it has developed a flexographic plate (see note 1) that offers full water development (note 2) and high-definition printing quality, now available under the new RESOLUCIA™ brand. The company plans to launch the new offer-

ing in January 2024.

Toray has long served letterpress printing customers worldwide, capturing the no. 1 position in that market with TORELIEF™ (note 3), which combines high-definition printing quality and excellent durability. The company responded to an emerging shift from letterpress to flexographic printing by applying TORELIEF™ technology in developing the RESOLUCIA™ flexographic plate for label applications.

RESOLUCIA<sup>™</sup> is a portmanteau of Resolution, Lucid, and Advance, embodying Toray's quest to deliver colorful and vivid printing with flexographic plates.

Technological innovations enabled Toray to deliver a resolution of around 200 lines per inch (note 4) with RESOLUCIA™. This improves image reproduc-



of around 24 minutes,
which Toray estimates is
more than 70% faster than
the conventional solvent
development technique,
reflecting full water development. Another advantage

of RESOLUCIA™ is that, in principle, there is no need for companies wishing to use it to invest in new plate-making equipment if they already employ TORE-LIEF™ or other letterpress plates.wards.

Applications for flexographic printing have broadened in recent years beyond corrugated cardboard to encompass packaging materials, including labels and flexible packaging. Toray is researching the use of RESOLUCIA™ for mono-materials flexible packaging printing. That is because the adoption of mono-material packaging substrates should rise with recycling packaging materials uptakes.

Labelexpo Asia 2023 at the Shanghai New International Expo Centre from December 5 through 8, 2023, is Asia's biggest label and packaging printing

event. From that gathering, Toray looks to expand RESOLUCIA™ promotional efforts at domestic and international printing-related exhibitions.

Toray will keep leveraging its core technologies of synthetic organic and polymer chemistry, biotechnology, and nanotechnology in

keeping with its commitment to innovating ideas, technologies, and products that deliver new value to create advanced materials and innovative technologies that contribute to social progress.

Source: Toray







### **ARKEMA SHOWCASES INNOVATION, BIO-RENEWABLE AND LOWER CARBON FOOTPRINT SOLUTIONS AT ABRAFATI 2023**

Arkema, a leader in specialty materials, will showcase more sustainable solutions and innovation for coatings during ABRAFATI 2023 - the International Exhibition and Congress of Suppliers for Paints, November 21-23 in SCo Paulo, Brazil, Booth #A79.

SAO PAULO, Brazil, Nov. 16, 2023 / PRNewswire-PRWeb/ -- Arkema, a leader in specialty materials, will showcase more sustainable solutions and innovation for coatings during ABRAFA-TI 2023 - the International Exhibition and Congress of Suppliers for Paints, November 21-23 in SCo Paulo, Brazil, Booth #A79.

The company is expanding its leading portfolio of high performance and sustainable materials, including solutions for UV/LED, powder, waterborne and high solid coating technologies. Arkema will feature a full offering for multiple innovations, including new bio-based polyurethane thickeners and alkyd emulsions, low carbon footprint solutions and very low VOC waterborne resins for interior and exterior applications in order to improve indoor quality and lower building materials carbon footprint.

Arkema offers a range of products dedicated to cool roof coatings, enabling up to 30% energy savings in air conditioning in buildings. Cool roof applications

are part of Arkema's focus on improving building energy efficiency of the construction market, with particular utility in the hotter regions found in Southern Brazil.

"Arkema's commitment to innovation and sustainability to innovative solutions will be on full display ABRAFATI. We look forward to initiating business, and exchanging information, and technical knowledge in the field at this important industry event," said Jonadade Santos, Southern Cone Business Director, Arkema.

Source: Arkema

### **AKZONOBEL LAUNCHES PIONEERING LOW-ENERGY POWDER COATING**

ovember 13, 2023 An industry-first

powder coating which can be cured at temperatures as low as 150°C - while still being Qualicoat class one certified - has been launched by AkzoNobel.

Curing at temperatures 30°C lower than traditional powder coatings means that Interpon D1036 Low-E can help customers cut energy consumption by as much as 20%. It can also cure up to 25% faster than conventional powders, allowing for more products to be coated in less time.

The product's sustainability credentials are backed up by an Environmental Product Declaration (EPD), an independently verified assessment of a product's environmental impact across its whole lifespan.

"At a time when every business is looking to play its part in reducing energy and accelerating sustainability, Interpon D1036 Low-E will support our customers in reducing their carbon emissions – as well as helping us to achieve our own target of a 50% carbon reduction across the value chain by 2030," explains Jeff Jirak, Director of the company's Powder Coatings business.

"We're proud to be innovating solutions that are helping to tackle some of the shared issues around sustainability and energy conservation that coaters, appli-

> cators and our own business are facing."

The new range is suited to many areas of the built environment, inside and out, from building

facades and windows to railings and doors - or any application where an ar-











chitectural certified product is typically applied. Its key features include excellent levels of durability to protect color integrity and performance.

Adds Jirak: "As we progress on the journey towards our net zero carbon ambitions, we'll continue to work closely with our customers to understand their needs and give them the products they require so we can build a more sustainable future together."

As well as committing to generating 50% fewer carbon emissions across the value chain by 2030, AkzoNobel also aims to achieve 100% circular use of materials by the end of the decade and deliver 50% of revenues from sustainable solutions.

Source: AkzoNobel

# GUARDIAN SUNGUARD™ HIGH DURABLE COATED GLASS IN CONTACT WITH SENTRYGLAS® XTRA™ INTERLAYERS OBTAINS A DTA FOR THE FRENCH MARKET

Bertrange, Luxembourg – November 30, 2023 – Guardian Glass and Kuraray have partnered to obtain a Document Technique d'Application (DTA) for the compatibility of Guardian Sun-Guard™ High Durable (HD) coatings (coating against interlayer) and SentryGlas® Xtra™ interlayer material. This combination offers architects and façade consultants a new opportunity to design a building envelope with high strength and energy performance.

Laminated Guardian SunGuard HD glass with SentryGlas Xtra interlayer is particularly suitable for monolithic ap-

plications such as the outer envelope of double skin facades, canopies or atriums, as well as applications that require high resistance to mechanical and/or wind loads. The DTA validates all glass compositions where SentryGlas Xtra is in direct contact with Guardian Sun-Guard HD coatings.

Combination of benefits: SentryGlas Xtra is part of SentryGlas ionoplast interlayers which are five times more tear resistant and up to 100 times stiffer than conventional PVB interlayers. Aside from its strength, SentryGlas is much less susceptible to moisture exposure. Due to the structural properties of the interlayer, the use of SentryGlas can also reduce overall glazing thickness, typically, by up to 30%. In addition, this reduction in glazing thickness can result in lowering the embodied carbon by approximately 27%\*.

Philippe Barbeau, Key Account Manager at Kuraray comments: "The resultant weight saving can lead to a revision of the overall structural analysis and lead to further material savings on a building envelope. This opens new possibilities for sustainable designs and CO2 savings potential. SentryGlas Xtra thus can make a contribution to reducing the carbon footprint."

Guardian SunGuard HD coatings are made from highly resistant materials, which make them particularly suitable for monolithic applications. Guardian SunGuard HD solar control glass offers various aesthetics and external reflectivity, as well as different levels of light transmission and solar factor.

Matthieu Laude, Product Manager at Guardian Glass in Europe comments: "We are delighted to announce this product partnership with Kuraray which further positions our Guardian SunGuard HD solar control products as an ideal solution for monolithic applications. Laminated Guardian Sun-Guard HD glass with SentryGlas Xtra interlayer offers several advantages for customers, not only from the combination of material properties. Having a readily available French DTA certification can save customers time and effort in applying for a certification specific to their project, and can reduce the costs associated with this."

### Environmental stewardship and product certification

Both SentryGlas and SunGuard HD products have Environmental Product Declarations (EPDs) available. FDES (Fiches de Déclaration Environnementale et Sanitaire - Environmental and Health Declaration Sheets) are available for the Guardian coated glass. SunGuard HD products are bronze level v3.1 Cradle to Cradle certified®, as are all Guardian float glass, laminated glass and coated glass products manufactured in Europe.

\* Figure based on a reduction in the thickness of the base glass (Guardian ExtraClear<sup>™</sup> glass) of 16mm (2x8mm) to 12mm (2x 6mm), interlayer and laminated glass process not included. The embodied carbon (calculated in the Guardian Glass Performance Calculator) for the 2x6mm base glass is 31.56 CO2 eq. kg/m2 A1-A3, approximately 27% lower compared to the 2x8mm base glass (43.52 CO2 eq. kg/m2 A1-A3). The embodied carbon data is the CO2 equivalent in kg per square meter of glass (CO2 eq.), emitted during the glass production (A1-A3, A1: raw materials supply, A2: transport, A3: manufacturing). The calculation is an estimation based on the material's Embodied Carbon Factor (ECF) derived from the Regional EPD, third-party, independently verified document that communicates transparent information about the lifecycle environmental impacts of a product.

Source: Press release









ASAHI KASEI, GENTARI,
AND JGC SIGNED
MOU ON FEED STUDY
FOR 60 MW CLASS
ALKALINE WATER
ELECTROLYSER TO
PRODUCE GREEN
HYDROGEN IN
MALAYSIA

sahi Kasei, Gentari Hydrogen Sdn ABhd, a wholly-owned subsidiary of PETRONAS clean energy arm Gentari Sdn Bhd (Gentari), and JGC Holdings Corporation (JGC) announced the completion of a detailed feasibility study for production of up to 8,000 tonnes per year of green hydrogen using a 60 megawatt (MW) class alkaline water electrolyser system. The parties also signed a memorandum of understanding (MOU) for a front-end engineering design (FEED) study for the said project. This project is supported by the Green Innovation Fund for Large-scale Alkaline Water Electrolysis System Development and Green Chemical Plant Project by Japan's New Energy and Industrial Technology Development Organization (NEDO).

Pursuant to the MOU, the parties are preparing for the FEED study to commence in January 2024. The operation is planned for start-up in 2027.

This collaboration between Asahi Kasei, Gentari, and JGC will advance the deployment of a 60 MW class water electrolyser paired with an integrated control system to produce green hydrogen. This commercial-scale project demonstrates the companies' commit-

ment to fostering markets for green hydrogen and establishing a foundation for regional green hydrogen production, aligning with the broader mission of decarbonisation in Japan, Malaysia, and across Southeast Asia.

"We are pleased to collaborate with these two companies on a project that will demonstrate to the world the practical application of green hydrogen. Asahi Kasei's experience from demonstration experiments in Germany and managing a 10 MW electrolyser in Japan for over three years will play a pivotal role in this project's success," said Nobuko Uetake, Lead Executive Officer of Asahi Kasei and Senior General Manager of its Green Solution Project.

"This strategic collaboration between Gentari, Asahi Kasei, and JGC, amplifies value for all involved. The project stands as a catalyst for advancing Malaysia's hydrogen economy towards achieving its green hydrogen target of 200,000 tonnes per year by 2030, aligning with the National Energy Transition Roadmap and Hydrogen Economy and Technology Roadmap. Beyond this, Gentari is developing hydrogen projects with national and state entities to position Malaysia as the region's leading hydrogen hub, leveraging PETRONAS assets and the country's strategic advantages," said Michèle Azalbert, Gentari's Chief Hydrogen Officer.

"I would like to express our sincere appreciation for the efforts to conclude this MOU. JGC Group is currently constructing a demonstration facility of clean ammonia production adjacent to Asahi Kasei's electrolyser at Namie-machi, Fukushima Prefecture, Japan, together with an integrated control system. We look forward to applying the lessons learnt from the demonstration and to utilising its technical outcomes toward the execution of this project in Malaysia," said Masahiro Aika, Senior Executive Officer, Technology Commercialization Officer and General Manager, Sustainability Co-creation Unit of IGC.

Source: Asahikasei

# PULCRA AND DEVAN UNVEIL DEVAN REPEL A NEW BRAND IN THE WATER REPELLENCY MARKET

RONSE, BELGIUM – In a world where water-repellent textiles play an important role in various industries, Pulcra Chemicals, a global leader in sustainable chemical solutions, has joined forces with its subsidiary, Devan Chemicals, to introduce DEVAN REPEL: a new brand in the water repellency market. The first product in that range, DEVAN REPEL ONE, is a durable water repellent for Polyester and blends developed on the scientific foundation of the companies' chemical and textile technology know-how.

DEVAN REPEL ONE, the new water repellent takes a smart step forward by combining cutting-edge chemistry with eco-conscious principles. This solution offers a range of interesting benefits:









- Superior Performance: The technology offers outstanding water repellency performance, ensuring that textiles remain dry. Whether it's rain and outdoor wear, outdoor furnishing, shower curtains or multiple technical textiles, the new solution can handle it, making it a strong choice for industries where water resistance is paramount.
- Flexibility: The versatility of this technology is another key advantage. It can be applied to a wide range of materials, with especially good results on polyester and its blends, offering flexibility for various applications across industries.



- Enhanced Sustainability: This technology is free from perfluorinated compounds (PFCs), and free from isocyanates.
- Longevity: Products treated with this water repellency technology are protecting from the elements for a longer lifespan.

Performance, particularly on effect durability, can be boosted to meet different requirements with new DEVAN EXTENDER GEN3. This extender is free of Isocyanate, Butanone-oxime and 2-dimethylpyrazole.

"This collaboration underscores our shared commitment to delivering value to
our customers," said Thomas Bremer, Global Head
of SBU Textile at Pulcra
Chemicals and Managing
Director of Devan. "By
combining Pulcra's extensive chemical expertise with

## Devan's textile technology know-how, we are excited to bring a high performing, cost-effective product to the market."

Whether it's keeping outdoor enthusiasts dry in a downpour, ensuring athletes stay comfortable during intense

workouts or enhancing the functionality of tents, DEVAN REPEL ONE does the job.

The development of DEVAN REPEL ONE is a joint to Devan and Pulcra's

dedication to innovation and sustainability. By continually pushing the boundaries of tex-

tile technology, Devan and Pulcra are helping to create a more comfortable and sustainable world.

Source : Devan

MICHIGAN-BASED
PHOTO SYSTEMS
INC. ANNOUNCES
BRAND LICENSING
AGREEMENT FOR
KODAK PROFESSIONAL
PHOTOGRAPHIC
CHEMICALS, FULL
RANGE LAUNCHING IN
EARLY 2024

DEXTER, Mich., Dec. 7, 2023, Dec. 7, 2023 -- Consumers are set to see Kodak branded photo chemicals widely available in early 2024. Photo Systems, Inc., a new authorized brand licensee,

will begin manufacturing in the U.S. early next year, bringing Kodak Professional Photographic Chemicals to market.

"Analog photography and analog photo chemicals have always been the focus of Photo Systems," says Photo Systems Inc. CEO Alan Fischer, "and we were very concerned that a vital link to analog photography would be lost. We

> are pleased to become the licensee of Kodak and carry on the more than 150-year tradition of Kodak Professional Photographic Chemicals."

Ju15.

Kodak Professional Photographic Chemi-

cals run the gamut of analog photography, including conventional black and white, C41, E6, and RA4 processes. Photo Systems Inc. plans to introduce black and white chemicals as early as January 2024, followed by C41 color chemicals, E6, and RA4 by the end of the third quarter.

"Photo Systems Inc. has manufactured analog photographic chemicals for over 50 years from our plant and headquarters in Dexter," Fischer added. "We will continue to use our many years of experience in photographic chemical manufacturing, as well as the specific experience in manufacturing Kodak Professional Photographic Chemicals we have garnered over the past four years, to deliver the quality and reliability that consumers have come to expect."

Consumers will see additional new products shortly, including 1- and 2.5-liter kits of conventional C41, and conventional E6 will also be introduced. Minilab chemicals will be reintroduced in C41, RA4, and E6.

Source: Photo Systems Inc









### EVONIK TO BUILD FIRST PLANT IN NORTH AMERICA FOR ULTRA-PURE COLLOIDAL SILICA

Evonik, one of the world's leading specialty chemicals companies, is building a new plant to produce ultra-high purity colloidal silica at its site in Weston, Michigan, USA which is expected to generate a total capital spending of \$7.9 million in 2023 and 2024.

- Plant expected to come onstream in 2024 in Weston, Michigan, USA
- Colloidal silica is an important material for the electronics and semiconductor industries
- Investment strengthens focus on specialty chemicals

Weston, Michigan, USA: Evonik, one of the world's leading specialty chemicals companies, is building a new plant to produce ultra-high purity colloidal silica at its site in Weston, Michigan, USA which is expected to generate a total capital spending of \$7.9 million in 2023 and 2024. The plant, which is expected to come onstream in 2024, will be the first of its kind in North America. Colloidal silica is an important raw material for the electronics and semiconductor industries, whose growth is driven by the global demand for microchips and digital products.

The new plant will make Evonik one of the only players in the market that can reliably produce the colloidal silica required for the chemical mechanical planarization (CMP), a process step in microchip production in the necessary

quality and purity. Evonik's colloidal silica, which is marketed under the IDI-SIL® brand, is characterized by its ultra-high purity and particularly narrow particle size distribution.

"The new plant makes an important contribution to the strategic development of our portfolio," says Peter Friesenhahn, head of Evonik's Silanes business line. "We are strengthening our offering for attractive, technology-driven growth markets and positioning ourselves as an innovation partner for our customers."

Evonik is already a major supplier of ultra-pure tetrachlorosilane and other silanes for the semiconductor and electronics industry, and has a global network of production facilities and scientists in this field. "It will enable us to offer our customers additional supply options and even better security of supply in the future," says Christian Edlinger, head of the Americas region in the Silanes business line. Until now, companies producing in the Americas have often had to rely on imports from Asia.

With the support of a \$900,000 Michigan Business Development Program performance-based grant, the expansion will not only strengthen Evonik's presence in Michigan, but also create new job opportunities in the region. "We're thrilled to celebrate this expansion by Evonik, helping to keep us at the forefront of the global semiconductor industry," said Michigan Governor Gretchen Whitmer.

"Team Michigan is proud to bring home this win and build on our leadership in the semiconductor supply chain," said Quentin L. Messer, Jr., CEO of the Michigan Economic Development Corporation. "We are grateful for Evonik's vote of confidence in our state."

The location of the new plant is no coincidence. The staff in Weston already has a great deal of experience in producing ultra-pure materials for the semiconductor industry. The new plant will be integrated into existing processes at the site.

Source: Evonik

# PPG LAUNCHES PPG DP7000 AIR-DRY PRIMER IN EMEA AUTOMOTIVE REFINISH MARKETS

ROLLE, Switzerland, Nov. 17, 2023 - PPG (NYSE:PPG) today announced the launch of PPG DP7000 Air-Dry Primer and a range of dedicated ancillaries across automotive refinish markets in Europe, the Middle East and Africa (EMEA). PPG DP7000 primer saves



bodyshops time and energy thanks to fast air drying, helping to increase productivity and profitability and reduce environmental impact.









PPG DP7000 Air-Dry Primer is a premium two-pack acrylic primer that is fully compliant with European VOC regulations. It is suitable for use with PPG ENVIROBASE® High Performance basecoats, PPG DELTRON® Progress UHS topcoat and all other PPG topcoat systems. It dries up to twice as fast as competing air-dry technologies and works in all humidity conditions. Baking or infrared curing can be also carried out when air drying is not appropriate.

"Air-drying processes have the potential to generate substantial energy savings for bodyshops and repair centers," said Valentina Chiappa, Product Manager EMEA, Automotive Refinish. "The advanced acrylic technology in PPG DP7000 Air Dry Primer means that it dries rapidly and is completely unaffected by humidity, so users can achieve excellent results whatever the humidity in their region. It can also be successfully applied in varying temperature conditions thanks to a range of ancillaries launched alongside the core product."

PPG DP7000 Air-Dry Primer is available in three grey shades to allow optimization of the topcoat color. It is easy to prepare, mix and apply, and offers flexible dry film thickness and superior sanding properties.

Source: PPG

### **GC COLLABORATES**

### WITH MHI TO EXPLORE THE UTILIZATION OF HYDROGEN, AMMONIA AND CCS TECHNOLOGY **TO DEVELOP A LARGE-SCALE** PETROCHEMICAL **PLANT TO ACHIEVE NET ZERO**

Rayong, Thailand, December 01, 2023 - PTT Global Chemical Public Company Limited (GC) signed a Memorandum of Understanding (MOU) with Mitsubishi Heavy Industries Asia Pacific Pte. Ltd. (MHI-AP) to jointly study the technologies required to develop a large-scale petrochemical complex that aims to support Thailand's Carbon Neutrality by 2050. This collaboration between GC and MHI-AP will involve the study of solutions that use low carbon fuels such as hydrogen and ammonia, as well as Carbon Capture and Storage technologies.

The MOU covers a total duration of 4 years and includes two main objectives to assess the feasibility of applying decarbonization technologies to GC's assets. The first is to conduct research to compare the feasibility of using hydrogen and ammonia as fuels for gas turbines, as well as CCS technologies to reduce carbon dioxide emissions from power generators. The second objective is to assess how CCS technologies can best be applied and optimized for the Steam-Methane Reforming (SMR) process. MHI-AP will support this through providing carbon capture technologies as well as hydrogen combustion gas turbines and ammonia gas turbines.

This collaboration is aligned with Thailand's announcement to achieve carbon neutrality by 2050 and with GC's operational strategies for robust and sustainable business growth alongside partners under the concept "Together to Net Zero", which aims to reduce greenhouse gas emissions by 20% by 2030 and achieve net zero greenhouse gas emissions by 2050.

Mr. Toasaporn Boonyapipat, Chief Operating Officer of GC's Base and Intermediate Chemicals Business, stated that GC operates its business strategy known as '3 Steps Plus.' This strategy includes Step Change, enhancing competitiveness; Step Out, seeking growth opportunities in new or international markets; and Step Up, a commitment to sustainable business practices, aiming to become a Net Zero Company. One of the initiatives to reduce greenhouse gas emissions responsibly involves researching ways to improve and develop processes by integrating modern technologies. For instance, hydrogen/ ammonia can be incorporated as fuel in power generation instead of natural gas to achieve net-zero greenhouse gas emissions.

Mr. Osamu Ono, Managing Director of MHI-AP, said: "Low-carbon fuels such as hydrogen, ammonia and CCS technologies have great potential in reducing carbon emissions from existing energy infrastructure. MHI-AP is honored to partner with GC to explore how we can utilize our technology and expertise to reduce carbon emissions from GC's existing business assets and support the establishment of an economically viable largescale carbon neutral petrochemical plant."

This collaboration between GC and MHI-AP is a pivotal part of a broader initiative involving numerous prominent global firms to foster an environmentally friendly industry.

Source: GC









### **LOTTE Chemical's Lamination Polypropylene (LAMI** PP) Selected as 2023 World Class Product

- Lamination Polypropylene (LAMI PP) selected as 2023 world-class product... Possible to manufacture end-product with improved stability and properties according to objective such as protection, adhesion, etc. by coating with this product
- Currently possesses 15 world-class products.... Supplying excellent products to customers around the world
- LOTTE Chemical, "Based on outstanding technologies and market understanding, we will actively pioneer the global high-value specialty product market through ongoing R&D and expanding products tailored to customers"

LOTTE Chemical's 'LAMI PP' was selected as a '2023 World Class Product.'

Morld-class product is an official certification program supervised by the Ministry of Trade, Industry and Energy and operated by KOTRA (Korea Trade-Investment Promotion Agency) with the goal of diversifying export products and expanding future export power. The products are divided into 'current world-class products' that are ranked in the top 5 for global market share, while also having global market scale of over 50 million USD annually or exports exceed 5 million USD annually, and 'next-generation world-class products' that have high potential of being ranked in the top 5 within the next 5 years.

With this new selection, LOTTE Chemical now has a total of 15 World Class Products, and it is supplying products to customers around the world based on the superiority of each product.

LOTTE Chemical's LAMI PP that was selected as world-class product this year is a 'current world-class product.'

LAMI PP coating applies the method of covering materials such as paper, sheets, and films with PP coating. It is possible to manufacture end products with improved stability and properties according to the purpose such as protection and adhesion using LAMI PP coating.

LOTTE Chemical's LAMI PP product

that was newly selected as a world-class product is a high-value, high-function PP product that makes simple coating process possible according to the use without having to separately implement additives such as adhesives and modifying agents.

Especially among LOTTE Chemical's LAMI products, the Homo PP LAMI product line that is specialized in paper coating, etc., has the highest market share in Korea and possesses stable coating balance, and the M9600 product has the highest market share in Vietnam, and it is being applied in molding devices of various conditions.

LOTTE Chemical stated, "LAMI PP has the highest production volume in Korea and it is being exported to various countries such as Vietnam. Indonesia and Turkey," while adding, "Based on outstanding technologies and market understanding, we will actively pioneer the global high-value specialty product market through ongoing R&D and expanding products tailored to customers."

Source: Lotte Chemical

### **Avient Features Sustainable Polymer Colorants** and Additives, Specialty Engineered Materials, and Services at Plastimagen 2023

MEXICO CITY – November 7, 2023

- Avient Corporation, a premier provider of specialized and sustainable material solutions and services, is showcasing its sustainable portfolio of polymer colorants and additives, specialty engineered materials, and services at Plastimagen, the largest plastics exhibition in Latin America, beginning today.

Avient is highlighting various polymer solutions and services that support sustainability objectives from conception to commercialization for customers in Latin America. This follows Avient's recent









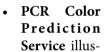
Gold Rating certification achievement from EcoVadis, a globally renowned sustainability ratings platform, for its commitment to sustainability, ethics, and responsible business practices. Avient is showcasing the following sustainable solutions and services at this year's Plastimagen tradeshow:

- Rejoin™ Post-Consumer Recycled (PCR) Colorants use PCR content as a carrier resin, allowing for 100% PCR packaging with color for bottles and parts. It combines pigments and functional additives into one solution without negatively impacting color or mechanical properties.
- ColorMatrix<sup>™</sup> Smartheat<sup>™</sup> RHC liquid dispersion process aids can improve the recycling and sustainability of polyethylene terephthalate (PET) bottles, reduce CO2 emissions, and have minimal impact on final product color or aesthetics.
- reSound™ REC Recycled Content
  Thermoplastic Elastomers can
  help brand owners create sustainable end-user products, with formulations utilizing up to 83% recycled
  content for consumer and transportation industries. PCR grades are
  formulated from multiple types of
  recycled content, ranging from ocean
  plastics to food packaging. Transportation grades are formulated for

automotive interiors and are tested to VDA 278 and VDA 270 standards.

Structural Thermoplastics are injection molded composites with structural properties, able to replace metal and lightweight parts. Benefits include high strength and stiffness performance, creep resistance, fatigue endurance, elevated and low-temperature performance, dimensional stability, and corrosion and chemical resistance.

PCR and post-industrial recycled (PIR) recycled content grades are available.



trates the color possibilities or limitations of certain types of PCR for customers, including polyolefins and PET resins. This can help simplify the overall decision-making process for brand owners and technical colorists and help shorten the time-to-launch of new product ranges.

 New Production Line in Mexico to meet the growing demand and requirements in the region. This line includes the latest technology available to improve safety, production efficiency, sustainability support, and add value for our stakeholders and customers.

In addition, knowledgeable representatives from Avient's color and additives and specialty engineered materials businesses will be on hand to help customers address application needs, discuss sustainability goals, and leverage

extensive material and application knowledge. The ColorWorks™ team will highlight ColorForward™, the annual color forecasting guide for the plastics industry.

Avient is exhibiting at Plastimagen in Mexico City, Mexico, in booth 2114 from Tuesday, November 7 – Friday, No-

vember 10, 2023. Andrew Donovan, Avient Technology Group Lead, will discuss recycled content thermoplastic elastomers (TPEs) for automotive interiors at the Circular Economy Summit on Wednesday, November 8, from 11:50 a.m. to 12:30 p.m. at Palacio de Iturbide, room 3.

Source: Avient

# Plastics to food packaging. Transportation grades are formulated for Archroma At Paperex 2023 To Present Innovative And Sustainable Solutions In Packaging

Pratteln, Switzerland, 27 November 2023 - Archroma, a global leader in specialty chemicals, is thrilled to announce its participation in PaperEx 2023, one of the premier events in the paper and packaging industry. The exhibition will be held from December 6th to 9th, 2023 at the India Expo Centre in Delhi - NCR.

Visit Archroma at Hall 15, Booth P40

to explore cutting-edge solutions that redefine the standards of performance and sustainability in the paper and packaging sector.

Archroma is set to highlight the following product spotlights during the event:

• Cartaseal® range - Superior PFCfree barriers: Archroma's Cartaseal® range - including Cartaseal® SCR, Cartaseal® VWAF and Cartaseal® HFU - boasts superior moisture vapor barrier properties, coupled with excellent resistance to water, oil, and grease. This innovative range addresses the industry's demand for high-performance, eco-friendly solutions, offering a sustainable alternative without









compromising on performance.

Mowilith\* LDM 7255M - Lamination adhesive for flexible packaging:

Mowilith® LDM 7255M is a versatile adhesive that meets a variety of packaging requirements. It's an excellent choice for sachets for mouth fresheners, that use a combina-

tion of paper and foil, and is equally effective for sealing plastic-to-plastic in the packaging of dry snacks like cookies, candies, chocolates, potato chips, and more.

This adhesive not only lowers energy costs but also enhances production speed, thereby optimizing overall efficiency. Attendees can explore firsthand how this innovation contributes to the

evolving and dynamic landscape of flexible packaging.

In addition to the spotlighted products,

Archroma will showcase a diverse range of innovative solutions for barriers and functional chemicals, whiteness management, color-

ations, and other specialty products.

"We are excited to invite industry professionals, partners, and stakeholders to join us at PaperEx 2023. Archroma's presence at this prestigious event signi-

fies our dedication to advancing sustainability and performance in the paper and packaging sector," said Sameer Singla, Divisional President CEO of PP&C at Archroma.

Archroma invites you to join them at PaperEx 2023 to explore these innovations and engage in discussions about creating a brighter, more sustainable future for the paper and packaging industry.

PaperEx 2023 will take place from December 6th to 9th, 2023 at the India Expo Centre in Delhi - NCR. You are invited to visit the Archroma team at Hall 15, Booth P40.

Source: Archroma

### Net-zero chemicals industry initiative relaunches as the Global Impact Coalition

- The CEO-led chemical industry initiative, incubated by the World Economic Forum, has been relaunched as the Global Impact Coalition (GIC).
- The new standalone Coalition has been created by seven founding member chemical companies and is supported by more than 70 senior industry executives.
- The first tangible project to accelerate the implementation of chemical and mechanical recycling for plastics was also launched in 2023.

To drive the global chemical industry on a path to net-zero emissions by 2050, the Low-Carbon Emitting Technologies (LCET) initiative, incubated and hosted by the World Economic Forum for more than three years, has now

officially launched as the independent Global Impact Coalition.

With a suite of leading-edge projects, the CEO-led coalition, founded by BASF, SABIC, Covestro, Clariant, LyondellBasell, the Mitsubishi Chemical Group, and Solvay will focus on accelerating the development and upscaling of low-carbon emitting technologies for chemical production and related value chains. With a focus on innovation, partnerships, and the development of net-zero production methods, the new Coalition can make an important contribution to carbon neutrality and sustainable growth.

"After over three years of incubation within the World Economic Forum and led by tangible results in the decarbonization space, we are delighted to witness the Global Impact Coalition emerge as an independent legal entity," said Børge Brende, President, World Economic Forum. "We are dedicated to nurturing our strong relationship, bolstering sustainability and innovation within the chemicals sector."

#### **Leading Demonstration Projects**

The Coalition will incubate projects with a proven approach pioneered by the LCET. Example projects coming from Coalition member companies: The R&D Hub for Plastic Waste Processing - which will focus on developing new technologies for waste processing with a lower CO2 footprint and greater levels of plastic waste recycling.

Electrically Heated Steam Cracker Furnace - collaboration to construct the world's first demonstration plant for large-scale electrically heated steam









cracker furnaces.

#### Marking a milestone

The Coalition is a collaboration of incubation of low carbon emittance technologies in the chemical industry, supported by an expert community of more than seventy senior chemical industry executives. Its transition from a World Economic Forum initiative into the new, independent Coalition marks an important milestone and has been made possible by its founders.

### "I see immense potential

in reshaping the chemical industry's impact on our planet. One of our goals is in forging new pathways to achieve this, through collaboration, business model transformation, and solid partnerships that create true value in our drive to a net zero future. I am extremely excited to lead the charge, focused on less talk,

### more results", said Charlie Tan, Global Impact Coalition's Chief Executive Officer.

At the cornerstone of the global economy, the chemical industry provides essential materials, technologies and building blocks for 95% of all manufactured goods. As a crucial part of almost all sectors, sourcing and using alternative and sustainable sources of carbon will have an important impact in the fight against climate change.

Source: Press Release

### Archroma Inspires Sportswear Designers of the Future at the ISPO Academy Masterclass

Pratteln, Switzerland, 23 November 2023 - Archroma, a global leader in specialty chemicals towards sustainable solutions, is again partnering with ISPO Academy to inspire promising young design talents in a four-day Masterclass held alongside ISPO Munich 2023 to explore this year's theme, "CIRCULAR-ITY - Create | Adapt | Revive."

ISPO Munich is the world's leading trade fair for the sports industry. It is expecting to welcome more than 50,000 visitors and over 2,000 exhibitors to the Trade Fair Center Messe München from 28-30 November.

Conceived as a bridge between education and industry, the ISPO Academy Masterclass gathers top students from the world's leading design and fashion schools to collaborate on bold new sportswear concepts. The aim is to encourage multidisciplinary thinking and future-oriented approaches. The one-of-a-kind event includes support from industry innovators, including Archroma's Color Management business, and culminates in a public presentation in which the Masterclass participants pres-

ent the workshop results to the ISPO audience on November 29.

"Since launching the 2016, we have always sought to inspire international design students to Create Another Tomorrow," Nora Kuehner, Founder and Chair of the ISPO Academy Master Class, explained. "This year,

we are asking them to Create, Adapt and Revive, venturing beyond boundaries to explore new paths to meaningful product design. We are pleased to again have the support of Archroma in hosting this important event."

Sponsoring the Masterclass for the fifth time, Archroma will equip the teams with The Color Atlas by Archroma\* to enable them to use the industry's largest library of 5,760 colors for cotton and polyester fibers to develop their concepts in compliance with leading international eco-standards. The Color Atlas will help the students to both explore new perspectives at the design stage and

prepare their presentations with colors that accurately communicate their vision.



"Archroma has unique perspectives on color and

sustainability that we are excited to be able to share with talented young designers developing future-forward fashion," Chris Hipps, Global Director, Archroma Color Management, said. "As color problem-solvers, we are always pushing the boundaries of what's possible, and we hope we can inspire the Masterclass stu-







### dents to embrace creative freedom and shine."

The Color Atlas by Archroma® empowers fashion designers and stylists with off-the-shelf color inspiration and the ability to quickly and reliably execute their design intent in production with products that meet their desired sustainability profile. It is available as a multi-volume book set, as well as a mobile-friendly online platform that integrates smoothly with popular design software and manufacturing systems.

The online version of The Color Atlas by Archroma® recently won the inaugural Business Expansion - Digital Platform award at the Just Style 2023 Excellence Awards.

Source: Archroma

### India to Launch First-Ever Auction of Critical Mineral Blocks, Including World's New Fuel, from Nov 29

India will for the first time on November 29 invite bids for 20 critical mineral blocks, including lithium and graphite. This is not only seen to boost economic development but also a part of the nation's strategy to ensure adequate domestic resources of essential raw materials cruciual for powering the green energy transition.

"Twenty blocks of critical and strategic minerals being auctioned are spread across the country. This is a landmark initiative that will boost our economy, enhance national security and support our transition to a clean energy future," the government said in a statement.

The auction will be held online, using a transparent two-stage ascending forward auction process. Eligible bidders will be chosen based on the highest percentage of the quoted value of dispatched minerals they offer, the government said.

Details of the mineral blocks, auction terms, timelines etc. can be accessed on MSTC auction platform at www.mstcecommerce.com/auctionhome/mlcl/ index.jsp from 6 pm on 29th November, 2023.

Critical minerals serve essential roles in various sectors, including renewable energy, defense, agriculture, pharmaceuticals, high-tech electronics, telecommunications, transportation, and the establishment of gigafactories.

Moreover, India aims to reach a milestone of 50% cumulative electric power installed capacity from non-fossil sources by 2030. This ambitious energy transition plan is poised to stimulate demand for electric cars, wind and solar energy projects, as well as battery storage systems, consequently amplifying the need for critical minerals.

India changed its mining rules in July in a bid to boost exploration of some critical minerals like lithium by allowing private miners to search for the materials. The reforms will be key for auctioning lithium blocks recently identified in Jammu and Kashmir, and Karnataka state.

In October, India's cabinet had approved royalty rates for three critical and strategic minerals. The approved royalty rates for lithium, Niobium and REE are 3 per cent, 3 per cent and one per cent, respectively.

State-run enterprises have been actively scouting the globe in search of these valuable mineral resources. Meanwhile, prominent energy giants like Coal India Ltd. and NTPC Ltd. are meticulously strategizing their foray into the mining sector to tap into these essential materials.

Additionally, the establishment of Khanij Bidesh India Ltd., a joint venture involving three government-owned companies, further underscores India's commitment to securing critical mineral assets on an international scale, with a primary focus on regions such as Australia and South America.

The scarcity of these minerals in select nations may create vulnerabilities within the supply chain. The future of the global economy hinges on technologies reliant on minerals like lithium, graphite, cobalt, titanium, and rare earth elements, the government said today.

India has been exploring ways to secure supplies of lithium, a critical raw material used to make electric vehicle batteries. In February, India found its first lithium deposits in Jammu and Kashmir with estimated reserves of 5.9 million tonnes.

Lithium-ion battery costs rose last year for the first time in the EV era, according to BloombergNEF. Elon Musk bemoaned lithium's "insane" rally and said high raw material costs were among Tesla Inc.'s biggest headwinds.

As the world moves away from gasoline-fueled combustion engines, demand for lithium, nickel, cobalt and other metals that go into lithium-ion batteries is soaring.

Source: The Economic Times









### Covestro and Kronos Jointly Launch Printing Materials Portfolio for Digital Inkjet Printing

Covestro collaborated with Kronos to release solutions that support the application of digital inkjet printing materials on textile materials, thereby further promoting the sustainable transformation of the textile industry.

The textile industry's carbon reduction

and sustainability path is in full swing. Digital printing is becoming an alternative to traditional analog printing by reducing waste by 85%, energy consumption by 55%, water consumption by 60% and carbon dioxide emissions by 95%.

Sustainability in the Textile Industry, in addition to reducing the carbon footprint in the

production process, digital printing can help printed products have efficiency advantages such as shorter time to market and single-digit batch production close to the end consumer. These advantages mean that the adoption of inkjet printing is growing, but the technology can only reach its potential if supported by advanced formulations and carefully selected raw materials designed specifically for digital textile printing. Not all polyurethane adhesives are suitable.

Titanium dioxide supplier Kronos and Covestro jointly released a new generation of sustainable digital printing solutions, demonstrating how innovative new material solutions can support the application of digital inkjet printing on fabrics, thereby promoting the sustainability of the textile industry transformation. After testing by both raw material suppliers and validation by industry partners, the collaboration

successfully demonstrates the combination of Covestro's waterborne INSQIN® product portfolio, consisting of Impranil® polyurethane dispersion and Imprafix® cross-linker, with the white pigment dispersion KRONOS 9900 Digital White compatible. No significant precipitation was observed and all formulated sys-

t e m s



showed good stability even after 4 weeks of testing at 50°C.

Therefore, it is an exciting development that the compatibility of four Covestro polyurethane dispersions Impranil \* DL 1602, Impranil \* DL 1618, Impranil \* DL 1620 and Impranil \* DL 1623 with KRO-NOS 9900 Digital White has been confirmed , opening the door for increased adoption of inkjet fabric printing. These ingredients create a formula suitable for reliable printing processes.

Covestro has also developed a new polyurethane dispersion, Impranil \* DL 1606, specifically designed to address the specific problem of sagging due to the relatively high ink loads required for direct-to-foil (DTF) printing.

The polyurethane dispersion Impranil \* DL 1606 offers excellent sag resistance and enables high white ink loading,

making it an excellent choice for white pigment inks used in inkjet printing. Its performance in terms of compatibility, stability, printability and image quality has been validated by Covestro's innovation partner customers, which means textile manufacturers can be confident in achieving high-quality results for digital printing environments and efficiency advantage.

Dr. Torsten Pohl, global head of textile coatings at Covestro, said: "By joining forces with Kronos, we can solve two key pigment ink challenges facing the growing digital inkjet printing market: formulation and sag. Partnering with Kronos, brings us another challenge one step closer to a more sustainable textile industry!"

Jürgen Bender, Global Market Development Manager at Kronos: "With this collaboration, we have ensured the compatibility of our innovative KRONOS 9900 digital white water-based pigment concentrate with Covestro's INSQIN \* polyurethane dispersions, ideal for direct-to-foil fabric printing. In addition , the new KRONOS development addresses the need for highest stability in inkjet applications on the bottle, on the cylinder, on the printhead, in flight and on the substrate. Together we are clearing the barriers to the adoption of more sustainable digital printing technologies."

Source: Echemi









### Evonik Launches sustainable ECOHANCE® Soft Baobab Oil for Natural Cosmetic Formulations

ECOHANCE° Soft Baobab is refined from the non-edible seeds of the baobab fruit and is the latest addition to Evonik's ECOHANCE° program, which offers circular solutions to help the cosmetics industry move its operations and solutions into the safe operating space of the planetary boundaries.

- High-quality baobab oil sourced in collaboration with UNCCD and the Great Green Wall Initiative
- FairWild<sup>™</sup> certification confirms sustainable and social criteria are met for wild plant collection
- Latest addition to Evonik's ECO-HANCE® program for next-generation alternative feedstocks

vonik has launched a sustainable L'baobab oil sourced from the Sahel region of Ghana as the latest product in its ECOHANCE® program.ECO-HANCE® Soft Baobab is refined from the non-edible seeds of the baobab fruit and can be used in a wide range of natural cosmetic formulations such as hand creams, hair conditioners and body butters. In cooperation with the United Nations Convention to Combat Desertification (UNCCD), Evonik is supporting the Great Green Wall Initiative, which ensures that the sourcing of the baobab oil protects the local ecosystem and supports social and economic projects in the region. ECOHANCE® Soft Baobab was recently certified by the FairWild™ Foundation.

ECOHANCE® Soft Baobab is the latest addition to Evonik's ECOHANCE® program, which offers circular solutions to help the cosmetics industry move its operations and solutions into the safe operating space of the planetary bound-

aries. As part of Evonik's life sciences division, Nutrition & Care, the company's Care Solutions business serves as a preferred sustainable specialties partner to the cosmetic industry, helping companies to reduce their carbon footprint and increase their ecological and social handprint along the entire value chain.

"Sustainability drives us and collaboration defines us! ECOHANCE® Soft Baobab is a perfect example of how we uphold our core values of environmental and social responsibility. We've partnered with strong allies to build a brand-new supply chain, which allows our cosmetic customers to meet the growing demand for sustainable, high-performing natural products," said Yann d'Hervé, head of **Evonik's Care Solutions** business line.

The Fair-W i l d ™ Foundation certifies companies and products according to 11 principles and

29 criteria that address ecological, social and economic requirements for sustainable wild collection. By being FairWild  $^{\sim}$ 

certified, ECOHANCE® Soft Baobab demonstrates traceable and transparent supply chains. FairWild™ certification requires annual onsite visits by authorised certification bodies.

Baobab trees grow on poor soil, and tolerate heat and drought, making them essential vegetation for the Sahel and helping to prevent desertification. The wild harvest baobab fruits are traceable down to the collector.

Evonik's ECOHANCE® program was started in 2019 to provide circular solutions for the cosmetic industry. The goal of ECOHANCE® is to ensure the multiplication and improvement of next-generation alternative feedstocks, considering the entire life cycle of solutions, without compromising on performance. The launch of ECOHANCE® Soft Baobab follows the launch of ECOHANCE® Care PS3, an emulsifier based entirely on olive oil residues, and ECOHANCE® Remo XP, an eco-friendly multifunctional thickener.

The Care Solutions business at Evonik places sustainability at the center of all its activities, from sourcing, production and innovative processes to capital expenditure and M&A decisions.

For the cosmetics markets, Care Solutions provides specialist in concepts for skin care, sun care, color cosmetics, hair care, skin cleansing, active ingredients, alternative preservation

Source: Evonik

and product stabilization.







### DuPont Achieves Major Decarbonization Milestone Through Full Conversion to Low-GWP Styrofoam™ Brand XPS Insulation

Featuring a 94% reduction in embodied carbon, Low-GWP Styrofoam™ Brand XPS insulation – winner of the 2023 American Chemistry Council (ACC) Sustainability Leadership Award – is now available across North America.

117 ILMINGTON, Del., Nov. 30, 2023 /PRNewswire/ -- DuPont (NYSE:DD) announced all sites in North America manufacturing Styrofoam™ Brand XPS insulation now produce a low global warming potential (GWP) formulation, reducing the embodied carbon by 94%, and identifiable with a shift from the original blue to the new grey color. This new insulation maintains the Styrofoam™ Brand XPS trusted moisture resistance and thermal performance criteria demanded by the market. In addition to delivering significantly lower embodied carbon, this new Styrofoam™ Brand XPS insulation offers a wide range of benefits to customers, including LEED v4.1 LCA Optimization credit.

"I'm incredibly proud of everyone who contributed to this remarkable milestone," said Tim Lacey, Global Vice President & General Manager of DuPont Performance Building Solutions and Corian® Design. "This award-winning product embodies the spirit of innovation. Our collective efforts have significantly decarbonized our Styro-

foam™ portfolio, enabling
us to better support our
customers and communities while taking care of our
planet."

Rooted in over 80 years of technical innovation, the new low-GWP Styrofoam™ Brand XPS Insulation continues to build on its strengths. Already made with 100% renewable electricity1 and a zero-ozone-depletion formula, it continues to feature a minimum R-value of R-5 per inch of thickness, for long-term thermal performance.

Source: Dupont

### Lithium Project: LANXESS Plans to Supply Standard Lithium with lithium-Rich Brine

C pecialty chemicals company LANX-SESS has reached an understanding with Canadian company Standard Lithium on key points for further cooperation on the latter's lithium project at the LANXESS site in El Dorado, Arkansas, USA. Accordingly, in the event of industrial production of battery-grade lithium by Standard Lithium, LANXESS will supply the brine required for the extraction of lithium. In addition, LANX-ESS will lease a plot of land to Standard Lithium for a production facility and provide certain infrastructure services. Details of the future cooperation are subject of ongoing negotiations.

"Following the positive results of the profitability and feasibility study for lithium extraction from our brine, we are pleased to continue to accompany Standard Lithium on the path to industrial production. With the intended cooperation model, LANXESS can benefit efficiently from the promising market for electromobility and strengthen the profitability of its specialty additives - without risk and additional costs. In parallel, Standard Lithium secures the necessary raw material supply and infrastructure for production through corresponding contracts with LANXESS", said Karsten Job, Head of the Polymer Additives business unit at LANXESS. In

view of the planned model of cooperation, LANXESS will no longer pursue the possibilities of a financial investment into a project entity or a direct lithium sourcing. "However, we are working on different projects targeting the battery market", said Job. At its El Dorado site, LANXESS produces bromine, which is extracted from a salt brine. The natural reservoir at a depth of over two kilometers is the second largest in the world. Bromine and bromine-based intermediates are used, for example, as flame retardants in the electrical and electronics industry and the construction industry.

Source: Lanxess









### Air Products to Build Europe's Largest Blue Hydrogen Plant and Strengthens Long-term Agreement

Air Products' hydrogen pipeline network system. This will be the largest blue hydrogen plant in Europe once operational.

The carbon capture retrofit will capture CO2 from Air Products' existing hydrogen plant and ExxonMobil's Rotterdam refinery. The plant will be connected to the Porthos system, a consortium developing the first large-scale CO2 transport and storage system in the Netherlands which recently reached final investment decision approval. Along with CO2 from other industry in the port of Rotterdam, the captured CO2 will be transported to depleted gas fields in the North Sea, approximately 20 kilometers off the coast, where it will be permanently stored at a depth of more than three kilometers beneath the seabed.

Porthos allows Air Products to more

than halve its CO2 emissions in the port of Rotterdam. This represents a substantial step for reducing Air Products' direct emissions in the short term and contributes to meeting the Dutch National Climate Agreement targets. At the same time, Air Products is working hard to further decarbonise its own activities and those of its customers by realising plans to make green hydrogen available from imported renewable energy in the port of Rotterdam.

The project is being undertaken as part of long-term agreements with Exxon-Mobil and the Dutch State. Blue hydrogen from Air Products' hydrogen production plant will help customers in industry and mobility transition, whilst also creating and retaining jobs in an important industrial area.

"Air Products has been actively present and investing in Rotterdam for decades," commented Chief Operating Officer Dr. Samir J. Serhan. "Industrial companies here are continually looking for ways to realize syn-

ergies, create economies of scale, drive energy efficiencies and ultimately decarbonise. This project fulfils that demand. By sequestering CO2 through Porthos and bringing additional blue hydrogen to ExxonMobil and other customers, we can help generate a cleaner future."

"ExxonMobil aims to achieve net-zero Scope 1 and Scope 2 emissions from its operated assets by 2050 and we've taken a comprehensive approach to create emission-reduction roadmaps for each of our facilities," said Edward Dekker Kleijn, Rotterdam Site Manager. "We are pleased to build on our collaboration with Air Products to lower our environmental footprint. Carbon Capture and Storage is one of the critical technologies required to achieve the climate goals. This project is a great example of how industry works together to reduce carbon dioxide emissions in the Rotterdam port area."

Source : Air Product

### Naia™ from Eastman Maintains Dark Green Shirt in Latest Canopy Report

Eastman announced continued success in being recognized in the 2023 Canopy Hot Button Ranking and Report. The company received a dark green T-shirt designation, signaling Eastman's commitment to the protection of ancient

and endangered forests through its sustainable Naia™ cellulosic fiber.

In the Canopy report, "buttons" are assigned as a measure of a brand's sustainability performance. Eastman maintained a total score of 30 buttons for the sustainable production of Naia $^{\text{\tiny M}}$ .

Maintaining a dark green T-shirt designation since their 2022 audit and a light green designation since 2019,







Eastman has consistently demonstrated its dedication to developing fibers that prioritize sustainable sourcing of raw material, low-impact production, safe handling of chemicals and fiber innovation. Through its portfolio of sustainable fibers, including renowned Naia™ Renew and Naia™ Renew ES, Eastman continues to push the boundaries of what's possible with a combination of technology, vision and industry collaboration.

"As a pioneer in sustainability, we are driven by a shared purpose to innovate and create products that not only meet the highest standards of quality and performance but also contribute to a healthier planet," said Carolina Sister Cohn, global marketing leader for Eastman's textiles division. "We will continue to push the boundaries of innovation further, devel-

### oping solutions that harmonize customers' needs with the well-being of our environment."

In the report, Canopy recognizes and

commends Eastman for its dedication to advancing next-generation fibers. The report specifically highlights Eastman's launch of Naia™ Renew ES as a notable achievement.

Naia™ Renew ES incorporates 40% certified recycled\* waste material and 20% U.S.-grown cotton linters, which helps offset the use of virgin wood content. This results in a remarkable 60% certified recycled content\* in the fiber production process. This innovative product exemplifies Eastman's unwavering commitment to developing sustainable solutions that combat waste pollution and reduces reliance on virgin materials without compromising performance or quality.

Eastman was also recognized for its proactive approach to risk reduction in the supply chain. The company remains dedicated to ensuring responsible sourcing practices and has implemented a wood pulp sourcing policy to support sustainable forestry practices.



The Canopy-Style initiative aligns with Eastman's commitment to achieving its sustainability goals for Naia™.

The company aims to lower the greenhouse gas (GHG) footprint of the current Naia™ portfolio by 40% by 2030. By proactively playing its part in creating a more sustainable textiles industry, Eastman strives to protect the planet, support the well-being of industry workers and provide sustainable choices for consumers.

For more information on Eastman's sustainable forestry practices and its Naia™ portfolio, visit naia.eastman.com.

Source: Eastman

### Brenntag Inks Distribution Agreement with Halox for Paint & Coatings in Brazil

Brenntag, the global market leader in chemical and ingredient distribution, announced the signing of an exclusive distributor agreement with Halox to distribute a variety of solutions for the Paint & Coatings markets in Brazil, effective immediately.

Halox products are used across a wide range of applications, including Paint & Coatings.

<u>Used specifically as an-</u> <u>ti-rust and corrosion inhib-</u> itors, as well as additives for anti-staining on wood, customers benefit from this addition to the Brenntag portfolio. The LOPON line is dedicated to paint additives such as dispersants, defoamers and stabilizers. These products are suitable for water or solvent based. Diego Pierotty, Sr. Director Material Science

Brenntag Specialties Latin
America, commented "We
are honored that Halox has
chosen us to be their trusted partner in Brazil. We are
convinced that this product line is an important
addition to the Specialties
portfolio for the coatings
market in Brazil. With this
distribution agreement,
one of our main focuses











|    | CphI - Informa Group                                      |                       |  |  |  |
|----|---|-----------------------|--|--|--|
| No | Exibitions  | Date                  | Place  |  |  |
| 1  | CPhI North America  | May 7-9, 2024         | Pennsylvania Convention Center, Philadelphia       |  |  |
| 2  | CPhI Barcelona  | Oct 24-26, 2024       | 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  | CPhI Japan  | Apr 17-19, 2024       | Tokyo, Japan                                       |  |  |
| 6  | CPhI Korea  | Aug 27 - 29, 2024     | COEX, Seoul, Korea                                 |  |  |
| 7  | CPhI India  | Nov 26-28, 2024       | Noida, India                                       |  |  |
| ·  |   | ,                     | ,  |  |  |
| 1  |   | MECS (Coating Show)   | I. J   |  |  |
| 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 16-18, 2024     | Dubai World Trade Centre                           |  |  |
| 4  | Coatings For Africa 2024                                  | June 19-21, 2024      | Johannesburg, South Africa                         |  |  |
|    |   | DVETCHEM              |  |  |  |
| 1  | D C W   | DYE+CHEM              |  |  |  |
| 1  | Dye+Chem Morocco International Expo                       | TBD                   | Morocco  |  |  |
| 2  | 43rd Dye+Chem Sri Lanka International Expo                | Feb 29 - 2 March 2024 | Colombo Sri Lanka                                  |  |  |
| 3  | Dye+Chem Bangladesh International Expo                    | Sept 4-7 2024         | Bangladesh   |  |  |
| 4  | 44th Dye+Chem Brazil International Expo                   | July 10-12 2024       | Brazil   |  |  |
|    | 1   | Red Carpet Events     |  |  |  |
| 1  | 5th Bangladesh Int'l Dyes, Pigments and<br>Chemicals Expo | TBD                   | Dhaka, Bangladesh                                  |  |  |
|    |   | Turkey (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                                    |  |  |
|    |   | Other Exhibitions     |  |  |  |
| 1  | Paint India   | Feb 22-24, 2024       | Bombay Exhibition Centre, Mumbai                   |  |  |
| 2  | Expo Paint and Coating                                    | Jun 27-29, 2024       | Pragati Maidan, New Delhi                          |  |  |
| 3  | CIPI  | TBD                   | Mumbai, India                                      |  |  |
| 4  | Chemspec Europe   | June 19-20, 2024      | Germany  |  |  |
| 5  | ChemUK Expo   | May 15-16, 2024       | NEC, Birmingham, UK                                |  |  |
| 6  | American Coatings Show                                    | April 30-2 May 2024   | Indianapolis                                       |  |  |
| 7  | China Coat China  | Dec 2024              | China Import and Export Fair<br>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 | Water Expo 2024   | Sept 10-12 2024       | New Delhi  |  |  |
| 12 | Inacoating 2024   | July 30-Aug 1, 2024   | JlExpo Kemayoran, Jakarta - Indonesia              |  |  |
|    |   |                       |  |  |  |









### **EVENTS AND CONFERENCES**

### **PAINTISTANBUL & TURKCOAT 2024**

Date: May 08-10, 2024

City: Istanbul Expo Center (Istanbul Fuar Merkezi), Bakırköy/Istanbul, Turkey

**Country: Turkey** 

Website: <a href="https://10times.com/turkcoat">https://10times.com/turkcoat</a>

**Description:** "International Exhibition of Coatings, Inks, Adhesives, Sealants, Construction Chemicals." Paintistanbul & Turkcoat is a significant event for the paint and coating industry, attracting exhibitors and visitors from various countries. It provides an opportunity to explore new products and services and to network with industry professionals.

### **PAINT INDIA**

Date: Feb 22-24, 2024

City: Bombay Exhibition Centre, Mumbai

**Country: India** 

Website: https://www.paintindia.in/

**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.

### MIDDLE EAST COATING SHOW

Date: Apr 16-18, 2024

City: Dubai World Trade Centre

**Country: Dubai** 

Website: https://www.middleeastcoatingsshow.com/

**Description:** With more than 29 years in the industry, the Middle East Coatings Show has established itself as the only trade event dedicated to the coatings industry in the Middle East. For three days, the trade exhibition facilitates serious business and networking opportunities for the coatings community. The event creates the perfect environment for manufacturers, raw materials suppliers, distributors, buyers and technical specialists like formulators from the coatings industry to meet face-to-face and do business. That's not all, the event offers the opportunity to gather insight on the latest processes, exchange ideas with industry leaders and build a strong network in the Middle East and North Africa.

### **PAINT EXPO GERMANY**

Date: Apr 09 -12, 2024

City: Karlsruhe, Germany

**Country: Germany** 

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







### **EVENTS AND CONFERENCES**

**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.

### **CPHI NORTH AMERICA**

Date: May 07 -09, 2024

City: Pennsylvania Convention Center, Philadelphia

Country: North America

Website: https://www.cphi.com/northamerica/en/home.html

**Description:** Join a global network of pharma professionals connected year-round online and in-person. Attend pharma's largest event to discover further learning, innovation, and collaboration. As the exclusive pharma event in the Americas covering the end-to-end supply chain, it's the ONLY place to meet suppliers from all across our industry. Access endless opportunity to grow your business and expand your network at the heart of Pharma!

### **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.







is on the industrial, wood and architectural segments where outstanding protection against weathering, surface protection and ease of formulation is critical to ensure success of our valued customers. Halox has amazing products in the market to meet this challenge." Deborah Faber Weiland, Sr. Sales Manager Americas for Halox commented: "Brenntag is our partner of choice because the team convinced us of

their expertise in representing our strategy for our products and applications to Brenntag customers, significantly expanding our reach here in Brazil. We look forward to working together."

Source: Indian Chemical News

### DuPont Launches Printed Tedlar® PVF Solutions and PVF Coating at Taipei Building Show

TAIPEI, Dec. 7, 2023 /PRNewswire/
-- DuPont (NYSE:DD) today announced that Coryor Surface Treatment Company Ltd. and Nippon Paint Taiwan have introduced a series of new offerings including printed Tedlar® PVF solutions and PVF coating in Taipei Building Show, the largest building materials exhibition in Taiwan.

DuPont worked very closely with Coryor Surface Treatment Co. to launch the printed PVF film solutions featured at the show. This innovative PVF product made with Tedlar® is one of the Coryor's AAMALON® applications series, which is focused on better weathering resistance among other performance benefits. Tedlar\* films have more than 60 years of proven performance in the harshest environments. From resisting weathering on solar panels to keeping airplane interiors looking clean and new, Tedlar® film provides incomparable UV and weather durability. Tedlar® films are even resistant to the harshest chemical cleaners, including bleach and alcohol-based solvents.

Known for offering long-lasting aesthetic protection for architectural applications, Tedlar\* is available in a range of popular colors and can preserve and extend a building's appearance for its lifetime. Tedlar\* films are highly weath-

erable and dirt-shedding, therefore reducing maintenance costs and protecting structural investments. Coryor's AAMALON® films are not only 100 percent protected by Tedlar®, but also allow for tailored patterns and color, enabling limitless design creativity.

"Our booth at the Taipei Building Show features several great examples of various printed Tedlar® samples," said Jay Chang, CEO of Coryor. "Having Tedlar® barrier ensures that these eye-catching custom printed films will be protected and look new and better wherever they are used." These Coryor Tedlar® films can replicate the look of woodgrain, stone, and countless other organic finishes with unparalleled realistic detail, lasting outdoor fade resistance, and stay-clean performance. For more custom finishes, brilliant colors and photo-realistic images can be rendered with all the durability performance of Tedlar®.

In addition to the Coryor printed products, DuPont is also co-launching a PVF coating solution with Nippon Paint at the Taipei show. Designed for building exteriors, including those exposed to harsh environments, Tedlar® PVF coatings offer durable finishes for a variety of exterior and interior metal applications. PVF coatings are unique in that they simultaneously provide superior chemical

resistance, flexibility, hydrolytic, and UV stability, which are superior to any of the current coil and extrusion coating resin in the market. It offers ideal solution for surface protection against corrosion, fading and cracking, providing excellent chemical resistance and coating bendability performance.

"Tedlar® PVF coating has been chosen for projects requiring premium protection of metal building materials used in corrosive environments. This technology is tried and tested through the long history of PVF film and enables trusted PVF performance with color and application flexibility for the user," said Matt Urfali, Vice President, Sales & Marketing, **DuPont™ Tedlar®. "We are** very proud to launch this exciting new offering in the Taiwan market and bring differentiated value to our









### customers across the whole region."

"Coatings made from Tedlar® PVF enable the benefits of the film in a versatile format that can be tailored to specific architectural design needs. The finished

PVF coatings are currently being used in many different projects worldwide. We are pleased to collaborate with DuPont in introducing this innovative offering in the Taiwan market", said Zhou Lan, General Manager of Nippon Paint Taiwan.

PVF coatings are in-stock and available in the Taiwan market exclusively via Nippon Paint Taiwan, offering a truly innovative solution to the coil coating industry.

Source: DuPont

### KRONOS and Covestro Demonstrate Pigmented Ink Solutions for more Sustainable Textile Printing

- Digital inkjet printing technology enables CO2 emission reductions by up to 95 percent
- Remaining challenges are the pigment ink formulation and the threat of sagging in connection with the application
- KRONOS and Covestro confirm the compatibility of their aqueous titanium dioxide pigment concentrate and waterborne polyurethane binders, respectively
- Ink manufacturers can benefit from several advanced formulations for white inks that enable excellent jettability in the process

The textile industry aims to reduce its **L** environmental footprint. Switching from analog printing to digital printing using pigment inks can enable an 85 percent reduction in waste materials, a 55 percent lowering of energy consumption, a 60 percent reduction of water consumption, and a 95 percent decrease of CO2 emissions, and represents an opportunity to make textiles more sustainable. Digital textile printing also enables efficiency benefits such as shorter times to market and single-digit lot sizes produced close to end consumers. These advantages mean the adoption of inkjet printing is growing, but the technology will only reach its potential if it is supported by advanced formulations and carefully selected raw materials, specially designed for digital textile printing. Not all polyurethane binders are suitable.

KRONOS, a leading provider of titanium dioxide pigments, and Covestro, a global leading manufacturer of high-quality polymers, are collaborating to demonstrate how innovative new material solutions can support the uptake of digital inkjet printing on fabrics, advancing the textile industry's sustainability transition. Following testing by the two raw material suppliers and validation by industry partners, the collaboration successfully demonstrates that Covestro's waterborne INSQIN® port-

folio of Impranil® polyurethane binders and Imprafix® cross-linkers is compatible with the white pigment dispersion KRONOS 9900 Digital White. No significant sedimentation was observed, and all formulations showed

good stability even after four weeks of testing at 50°C.

As such, the proven compatibility of the four Covestro binders Impranil® DL 1602, Impranil® DL 1618, Impranil® DL 1620, and Impranil® DL 1623 with KRONOS 9900 Digital White is an exciting development, opening the door to increased uptake of inkjet fabric printing. Together, these ingredients create a suitable formulation for a reliable printing process.

### A new state-of-the-art binder tackles sagging

Covestro also developed a new polyurethane dispersion, Impranil® DL 1606, specifically to address the particular problem of sagging – a well-known quality issue resulting from the relatively high ink loads needed for direct-tofoil (DTF) printing, which was identified in the context of the collaboration. This state-of-the-art binder offers excellent anti-sagging properties and enables high white ink loads, making it a winning choice for white pigment inks used in inkjet printing. Its performance in

compatibility, stability, printability, and image quality has been validated by Covestro's innovation partners,

meaning textile manufacturers can reap the environmental and efficiency benefits of digital printing with full confidence in a high-quality result.

Dr. Torsten Pohl, Head of Global Textile Coatings, Covestro: "By joining forces with another raw materials supplier, we can address two key pigment ink challenges facing the growing digital inkjet printing market: formulation and sagging. Working together with KRONOS brings us another step closer to a more sustainable textile industry!"









KRONO.

| Booking price as on 16/12/2023  Current Exchange rate-\$1= 83.04 INR |           |                |  |  |  |
|--|-----------|----------------|--|--|--|
| Chemicals name Current Prices Local                                  |           |                |  |  |  |
| Acetic Acid  | 435-440   | CFR India      |  |  |  |
| Acrylonitrile  | 1250      | CFR India      |  |  |  |
| Benzene  | 925-930   | FOB India      |  |  |  |
| Phenol   | 1030      | CFR India      |  |  |  |
| Acetone  | 875       | CFR India      |  |  |  |
| Butyl acrylate monomer   | 1140-1150 | CFR India      |  |  |  |
| C9 solvent   | 1120      | CFR India      |  |  |  |
| LAB  | 1580-1600 | CFR India      |  |  |  |
| IPA  | 1100-1150 | CFR India      |  |  |  |
| Methanol   | 300-305   | CFR India      |  |  |  |
| VAM  | 880-890   | CFR South Asia |  |  |  |
| Toluene  | 980-990   | CFR India      |  |  |  |
| Styrene monomer  | 1170-1180 | CFR India      |  |  |  |
| NBA  | 1000-1050 | CFR India      |  |  |  |
| 2-eha  | 1300-1350 | CFR India      |  |  |  |
| Iso butanol  | 1000-1070 | CFR India      |  |  |  |
| MEG  | 550       | CFR India      |  |  |  |
| Mix xylene   | 970-980   | CFR India      |  |  |  |
| Gycerine   | 700       | CIF India      |  |  |  |
| DMF  | 900       | CFR India      |  |  |  |
| Acrylic acid   | 1020      | CIF India      |  |  |  |
| Formic Acid  | 650       | CFR India      |  |  |  |
| Adipic Acid  | 1300      | CIF India      |  |  |  |
| Ethylene   | 945-950   | CIF India      |  |  |  |
| PTA  | 840-850   | CFR India      |  |  |  |
| Propylene  | 795-805   | CIF India      |  |  |  |
| THF  | 1975      | CIF India      |  |  |  |

| Mumbai Market Price as on 14/12/2023 |                 |       |               |              |
|--------------------------------------|-----------------|-------|---------------|--------------|
| Name of Chemical                     | Packing type    | Units | Current Price | Exclusive of |
|                                      | Imported Repack | Rs/Kg | 52            | GST          |
| Acetic Acid                          | Domestic Intact | Rs/Kg | 64            | GST          |
|                                      | Domestic Repack | Rs/Kg | 56            | GST          |
|                                      | Imported Intact | Rs/Kg | NA            | GST          |
| Acatana                              | Imported Repack | Rs/Kg | 97            | GST          |
| Acetone                              | Domestic Intact | Rs/Kg | 110           | GST          |
|                                      | Domestic Repack | Rs/Kg | 97            | GST          |







| Acetonitrile                 | Imported Intact                 | D - /// -  | 100    |     |
|------------------------------|---------------------------------|--|--------|-----|
| Acetonitrile                 |                                 | Rs/Kg  | 138    | GST |
|                              | Domestic Intact                 | Rs/Kg  | 160    | GST |
|                              | Domestic Repack                 | Rs/Kg  | 127    | GST |
| A om do nitvilo              | Imported Intact                 | Rs/Kg  | 145    | GST |
| Acrylonitrile                | Imported Repack                 | Rs/kg  | 118    | GST |
|                              | Imported Intact                 | Rs/Kg  | 150    | GST |
| Anilia                       | Imported Repack                 | Rs/Kg  | 145    | GST |
| Aniline                      | Domestic Intact                 | Rs/Kg  | 153    | GST |
|                              | Domestic Repack                 | Rs/Kg  | NA     | GST |
| Benzene                      | Domestic Repack                 | Rs/Litre   | 88     | GST |
|                              | Imported Intact                 | Rs/Kg  | 132    | GST |
| Calabarasa                   | Imported Repack                 | Rs/Kg  | 111    | GST |
| Cyclohexane                  | Domestic Intact                 | Rs/Kg  | 116    | GST |
|                              | Domestic Repack                 | Rs/Kg  | 111    | GST |
|                              | Imported Intact                 | Rs/Kg  | 140    | GST |
|                              | Imported Repack                 | Rs/Kg  | 123    | GST |
| Cyclohexanone                | Domestic Intact                 | Rs/Kg  | 155    | GST |
|                              | Domestic Repack                 | Rs/Kg  | 145    | GST |
| C9 Solvent (99.99% purity)   | Imported Repack                 | Rs/Kg  | 103    | GST |
| C9 Solvent (Arham Petrochem) | Imported Repack                 | Rs/Kg  | 102.75 | GST |
| Dibutyl Phthalate            | Domestic Intact                 | Rs/Kg  | 128    | GST |
| Disast I Blade data          | Imported Intact                 | Rs/Kg  | NA     | GST |
| Dioctyl Phthalate            | Domestic Intact                 | Rs/Kg  | 138    | GST |
| Ethyd Apototo                | Domestic Intact                 | Rs/Kg  | 94     | GST |
| Ethyl Acetate                | Domestic Repack                 | Rs/Kg  | 90     | GST |
| Former all dishards (270/)   | Domestic Intact                 | Rs/Kg  | NA     | GST |
| Formaldehyde(37%)            | Domestic Repack                 | Rs/Kg  | 19     | GST |
| Methanol                     | Imported Repack                 | Rs/Litre   | 32     | GST |
| Mathed Ethed Katana          | Imported Intact                 | Rs/Kg  | 120    | GST |
| Methyl Ethyl Ketone          | Imported Repack                 | Rs/Kg  | 108    | GST |
|                              | Imported Intact                 | Rs/Kg  | 148    | GST |
| Methyl Isobutyl Ketone       | Imported Repack                 | Rs/Kg  | 140    | GST |
|                              | Domestic Repack                 | Rs/Kg  | NA     | GST |
| Mothyd Mothyd am data        | Imported Intact                 | Rs/Kg  | 142    | GST |
| Methyl Methacrylate          | Imported Repack                 | Rs/Kg  | NA     | GST |
| Missad Vislasa               | Imported Repack                 | Rs/Kg  | 89     | GST |
|                              | Domestic Repack                 | Rs/Kg  | 90     | GST |
| Mixed Xylene                 |                                 | Rs/Kg  | NA     | GST |
| iviixea xyiene               | Imported Intact                 | 1,0/1,0  | 1 1 1  |     |
|                              | Imported Intact Imported Repack | Rs/Kg  | 53     | GST |
| Monoethylene Glycol          | •                               | <del>                                     </del> |        |     |









|                         | Imported Intact | Rs/Kg | NA  | GST |
|-------------------------|-----------------|-------|-----|-----|
| Ico propul Alcohol      | Imported Repack | Rs/Kg | 117 | GST |
| Iso propyl Alcohol      | Domestic Intact | Rs/Kg | 138 | GST |
|                         | Domestic Repack | Rs/Kg | 120 | GST |
|                         | Imported Intact | Rs/Kg | 117 | GST |
| » Dutanal               | Imported Repack | Rs/Kg | 107 | GST |
| nButanol                | Domestic Intact | Rs/Kg | 117 | GST |
|                         | Domestic Repack | Rs/Kg | 108 | GST |
| Ortho Xylene            | Imported Repack | Rs/Kg | 103 | GST |
|                         | Imported Intact | Rs/Kg | NA  | GST |
| Dhonal                  | Imported Repack | Rs/Kg | 95  | GST |
| Phenol                  | Domestic Intact | Rs/Kg | 99  | GST |
|                         | Domestic Repack | Rs/Kg | 95  | GST |
| Dhthalia Anbudrida      | Imported Intact | Rs/Kg | 92  | GST |
| Phthalic Anhydride      | Domestic Intact | Rs/Kg | 92  | GST |
| Purified Terethaic Acid | Domestic Intact | Rs/Kg | NA  | GST |
| Styrene Monomer         | Imported Repack | Rs/Kg | 107 | GST |
| Toluene                 | Imported Repack | Rs/Kg | 89  | GST |
| loidelle                | Domestic Repack | Rs/Kg | 90  | GST |
| Vinyl Acetate Monomer   | Imported Repack | Rs/Kg | 81  | GST |
|                         |                 |       |     |     |

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

| International market prices as on 15/12/2023 |                   |                    |  |
|--|-------------------|--------------------|--|
| Products                                     | Regions           | Current prices     |  |
|  | Feedst            | ock Prices \$/unit |  |
|  | WTI CRUDE         | 71.87              |  |
|  | BRENT CRUDE       | 76.94              |  |
| Crude Oil (\$/barrel)                        | MARS US           | 79.71              |  |
|  | OPEC BASKET       | 73.91              |  |
| Natural Gas                                  | New York          | 2.42               |  |
| Gasoline                                     | RBOB              | 2.13               |  |
| Heating Oil                                  | US                | 2.61               |  |
| Ethanol                                      | US                | 1.68               |  |
|  | FOB Singapore     | 524                |  |
| Naphtha (\$/mt)                              | European          | 610                |  |
|  | CFR Far East Asia | 675                |  |
| Propane                                      | New York          | 0.67               |  |
|  | Aroma             | atics prices \$/MT |  |
| Ponzono                                      | FOB Korea         | 840                |  |
| Benzene                                      | CFR Japan         | 860                |  |







| r r                             |                      |      |
|---------------------------------|----------------------|------|
|                                 | CFR Japan            | 985  |
| Styrene                         | CFR South East Asia  | 1030 |
| Styrene                         | CFR China            | 993  |
|                                 | FOB Korea            | 980  |
|                                 | CFR China            | 800  |
| Toluene                         | CFR South East Asia  | 870  |
| loidelle                        | FOB Korea            | 800  |
|                                 | CFR Japan            | 800  |
|                                 | CFR South East Asia  | 820  |
| Iso-mix xylene                  | CFR Taiwan           | 855  |
|                                 | FOB Korea            | 840  |
| N.45-C                          | CFR China            | 480  |
| MEG                             | CFR South East Asia  | 490  |
|                                 | CFR China            | 280  |
|                                 | CFR Korea            | 326  |
| Methanol                        | CFR South East Asia  | 323  |
|                                 | CFR Taiwan           | 322  |
|                                 | CFR South East Asia  | 830  |
| Solvent-MX                      | FOB Korea            | 770  |
|                                 | CFR China            | 810  |
|                                 | CFR South East Asia  | 955  |
| Ortho xylene                    | FOB Korea            | 970  |
| , , , , ,                       | CFR China            | 950  |
|                                 | CFR South East Asia  | 970  |
| Para xylene                     | FOB Korea            | 945  |
| , , , , ,                       | CFR Taiwan           | 970  |
|                                 | FOB Japan            | 795  |
|                                 | FOB Korea            | 805  |
| Propylene                       | CFR China            | 835  |
| -                               | CFR South East Asia  | 795  |
|                                 | FOB Korea            | 895  |
| -                               | CFR China            | 920  |
| Propylene Glycol                | CFR South East Asia  | 925  |
| <br>                            | CFR Taiwan           | 920  |
|                                 | CFR North East Asia  | 845  |
|                                 | CFR South East Asia  | 885  |
| Ethylene                        | FOB Japan            | 820  |
|                                 | FOB Korea            | 825  |
| Ethylona Di Chla                | CFR Far East Asia    | 290  |
| Ethylene Di Chlo-<br>ride (EDC) | CFR South East Asia  | 280  |
| TIUE (LDC)                      | CFN SUULII EdSL ASId | 200  |









|                    |                     | ,                  |
|--------------------|---------------------|--------------------|
|                    | CFR China           | 955                |
| Butadiene          | CFR South East Asia | 910                |
|                    | FOB Korea           | 925                |
|                    | Benzene             | 865                |
|                    | Methanol            | 315                |
| FOB Rotterdam      | Ortho xylene        | 1270               |
| USD/MT             | Para xylene         | 1005               |
|                    | Xylene solvent      | 845                |
|                    | Styrene             | 1000               |
|                    | Toluene             | 890                |
|                    | Benzene C/G         | 334                |
|                    | Toluene C/G         | 334                |
| USA Aromatics      | Styrene C/LB        | 45.3               |
| prices FOB US Gulf | Para xylene \$/MT   | 1030               |
|                    | Mix xylene C/G      | 339                |
|                    | Methanol C/G        | 100                |
|                    | Intermed            | iates prices \$/MT |
|                    | CFR Far East Asia   | 1235               |
| Acrylonitrile      | CFR South East Asia | 1235               |
|                    | CFR South Asia      | 1235               |
| FDC .              | CFR Far East Asia   | 330                |
| EDC                | CFR South East Asia | 350                |
| \/CN4              | CFR Far East Asia   | 630                |
| VCM                | CFR South East Asia | 650                |
| MATRE              | FOB Singapore       | 849                |
| MTBE -             | FOB US Gulf         | 854                |
|                    | CFR China           | 905                |
| Dharai             | CFR South East Asia | 975                |
| Phenol             | FOB US Gulf         | 1335               |
| [                  | FOB Rotterdam       | 1096               |
|                    | CFR China           | 790                |
| [                  | CFR South East Asia | 905                |
| Acetone            | CFR Far East Asia   | 685                |
|                    | FOB US Gulf         | 1700               |
| Ī                  | FOB Rotterdam       | 1079               |
|                    | CFR Far East Asia   | 1640               |
| Caprolactum        | CFR South East Asia | 1640               |
|                    | FOB North East Asia | 335                |
| Caustic Soda       | CFR South East Asia | 410                |
|                    |                     |                    |







|                       | FOB US Gulf                       | 1672      |
|-----------------------|-----------------------------------|-----------|
| Ethyl acotato         | FOB Rotterdam                     | 1068      |
| Ethyl acetate         | FD North West Europe(Euro/        | 1090      |
|                       | mt)                               | 1090      |
|                       | FOB US Gulf                       | 2180      |
| Butyl acetate         | FOB Rotterdam                     | 1359      |
| Batyl acctate         | FD North West Europe(Euro/<br>mt) | 1360      |
|                       | FOB Rotterdam                     | 1268      |
| MEK                   | FD North West Europe(Euro/        | 4275      |
|                       | mt)                               | 1275      |
|                       | FOB US Gulf                       | 1150      |
| IPA                   | FOB Rotterdam                     | 2050      |
| IPA                   | FD North West Europe(Euro/        | 2000      |
|                       | mt)                               | 2000      |
|                       | CFR China                         | 1085      |
| NBA                   | CFR South East Asia               | 1095      |
|                       | CFR Far East Asia                 | 1080      |
|                       | CFR China                         | 1395      |
| Octanol               | CFR South East Asia               | 1335      |
|                       | CFR Far East Asia                 | 1410      |
|                       | CFR China                         | 1380      |
| DOP                   | CFR South East Asia               | 1430      |
|                       | CFR Far East Asia                 | 1395      |
|                       | CFR China                         | 950       |
| Phthalic anhydride    | CFR South East Asia               | 975       |
|                       | CFR Far East Asia                 | 1000      |
| DTA                   | CFR Far East Asia                 | 720       |
| PTA                   | CFR South East Asia               | 730       |
|                       | CFR Far East Asia                 | 484       |
|                       | CFR South East Asia               | 475       |
| Acetic Acid           | CFR South Asia                    | 460       |
|                       | FOB China                         | 395       |
|                       | CFR China                         | 835       |
| VAM                   | CFR South East Asia               | 855       |
|                       | CFR South Asia                    | 915       |
| Polymers prices \$/MT |                                   |           |
| D100                  | CFR Far East Asia                 | 740-760   |
| PVC Suspension        | CFR South East Asia               | 740-770   |
|                       | CFR Far East Asia                 | 1300-1350 |
| ABS Injection         | CFR South East Asia               | 1320-1370 |
|                       |                                   |           |







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







| Countries Groups | Southeast Asia is composed    | Far East Asia:The following countries are considered to   |
|------------------|-------------------------------|---|
|                  | of eleven countries: Brunei,  | be located in the Far East: China, Hong Kong, Macau, Ja-  |
|                  | Burma (Myanmar), Cambodia,    | pan, North Korea, South Korea, Mongolia, Siberia, Taiwan, |
|                  | Timor-Leste, Indonesia, Laos, | Brunei, Cambodia, East Timor, Malaysia, Laos, Indonesia,  |
|                  | Malaysia, the Philippines,    | Myanmar, Singapore, Philippines, Thailand, and Vietnam.   |
|                  | Singapore, Thailand and Viet- |   |
|                  | lnam                          |   |

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.

| Chemical Ports Price (Rs/kg) of Chemicals as on 15/12/2023 |                              |                         |  |                     |  |
|--|------------------------------|-------------------------|--|---------------------|--|
| USD Exchange Rate: 83.18 INR                               |                              |                         |  |                     |  |
| Alphabets  | Chemicals Name               | Current Prices (INR/kg) | Prices in USD/<br>mt Equivalent to<br>INR/kg | Location            |  |
| Α  | Acetic Acid                  | 45                      | 541.00                                       | Ex-Mumbai           |  |
|  | Acetic Acid                  | 44.5                    | 534.98                                       | Ex-Kandla           |  |
|  | Acetonitrile-imported intact | 140                     | 1683.10                                      | Bhiwandi            |  |
|  | Acetone                      | 83.75                   | 1006.85                                      | Ex-Mumbai           |  |
|  | Acrylic acid                 | 87                      | 1045.92                                      | Ex-Mumbai           |  |
|  | Acrylonitrile                | 104.5                   | 1256.31                                      | Ex- Kandla          |  |
|  | Adipic acid                  | 116                     | 1394.57                                      | Ex-Bhiwandi         |  |
|  | Aniline oil                  | 131                     | 1574.90                                      | Ex-Kandla           |  |
|  | ABS Resin                    | 132                     | 1586.92                                      | Ex-Mumbai Market    |  |
| В  | Benzene                      | 72                      | 865.59                                       | Ex-Vizaz            |  |
|  | Butyl Acetate                | 108                     | 1298.39                                      | Ex-Kandla           |  |
|  | Butyl Acrylate mono-<br>mer  | 102                     | 1226.26                                      | Ex-Kandla           |  |
|  | Butyl Glycol                 | 117                     | 1406.59                                      | Ex-Kandla           |  |
|  | DMF Drum                     | 76                      | 913.68                                       | Ex-Bhiwandi         |  |
| D  | DIBP & DINP intact<br>drum   | 128,129                 | 1540382.30                                   | Mumbai Market       |  |
|  | DEG                          | 67                      | 805.48                                       | Ex-Kandla           |  |
|  | EDC                          | 39.5                    | 474.87                                       | Ex-Kandla           |  |
| Е  | Epoxy Resin                  | 165                     | 1983.65                                      | Ex-Nhava Sheva      |  |
|  | Ethyl Acrylate               | 136                     | 1635.01                                      | Ex-port             |  |
| F  | Formic Acid                  | 65                      | 781.44                                       | Ex-Bhiwandi         |  |
| G  | Glycerine                    | 53                      | 637.17                                       | CIF Nhava Sheva     |  |
| L  | LAB                          | 132                     | 1586.92                                      | Imported            |  |
| 1  | Isobutanol                   | 90                      | 1081.99                                      | Ex-Kandla           |  |
| I  | IsoPropyl Alcohol            | 99/103                  | Not Available                                | Ex-Kandla/Ex-Mumbai |  |







|     | C10                         | 88                               | 1057.95       | Ex-Kandla                  |
|-----|-----------------------------|----------------------------------|---------------|----------------------------|
|     | C9                          | 82                               | 985.81        | Ex-Kandla                  |
|     | Carbon Black-regular grade  | 65                               | 781.44        | Mumbai                     |
|     | Caustic Soda Lye            | 30                               | 360.66        | Ex-Dahej                   |
| С   | Caustic Soda Flake          | NA                               | Not Available | Ex-Mumbai                  |
|     | Chloroform                  | 13                               | 156.29        | Ex-Dahej                   |
|     | Citric Acid-ANHYD           | 70                               | 841.55        | Ex-Bhiwandi                |
|     | Citric Acid-Mono            | 62                               | 745.37        | Ex-Bhiwandi/Ex-Mum-<br>bai |
|     | Cyclohexane                 | 96                               | 1154.12       | Ex-Hazira                  |
|     | Cyclohexanone               | 111                              | 1334.46       | Ex-Kandla                  |
|     | N-Heptane                   | 165                              | 1983.65       | Ex-Bhiwandi                |
|     | Hexane                      | 77.5                             | 931.71        | Ex-Kandla                  |
| Н   | Hydrogen Perox-<br>ide-50%  | 31<br>(31 NPL, 32 Magh-<br>mani) | Not Available | Ex-Bhiwandi                |
|     | Maleic Anhy-<br>dride-Drum  | 86                               | 1033.90       | Ex-Mumbai                  |
|     | MDC                         | 42                               | 504.93        | Ex-Dahej                   |
|     | MEG                         | 48                               | 577.06        | Ex-Mumbai                  |
|     | MEK                         | 91-92                            | Not Available | Ex-Kandla                  |
|     | Melamine                    | 94                               | 1130.08       | Imported                   |
|     | Meta Para Cresol            | 82                               | 985.81        | Ex-Bhilai                  |
| M   | Methanol                    | 23.75/24.75                      | Not Available | Ex-Kandla/Ex-Mumbai        |
| 141 | MIBK                        | 125                              | 1502.77       | Ex-Hazira                  |
|     | Mix Xylene-Solvent<br>Grade | 79.5                             | 955.76        | Ex-Kandla                  |
|     | Mix Xylene-Solvent<br>Grade | 80.5                             | 967.78        | Ex-Mumbai                  |
|     | Mix Xylene-Iso Grade        | NA                               | Not Available | Ex-Kandla                  |
|     | Mix Xylene-Iso Grade        | NA                               | Not Available | Ex-Mumbai                  |
|     | MMA                         | 140                              | 1683.10       | Ex-Hazira                  |
| N   | N-Butanol                   | 92                               | 1106.04       | Ex-Kandla                  |
|     | N-Propanol                  | 79                               | 949.75        | Ex-Kandla                  |
| 0   | Octanol                     | 122                              | 1466.70       | Ex-Kandla                  |
|     | Ortho Cresol                | 250                              | 3005.53       | Ex-Bhilai                  |
|     | Ortho Xylene                | 92                               | 1106.04       | Ex-Kandla                  |
|     | Tio2(Anatase Grade)         | 180                              | 2163.98       | Ex-Bhiwandi                |
| Т   | Tio2(Rutile Grade)          | 210                              | 2524.65       | Ex-Bhiwandi                |
| ı   | Toluene                     | 79                               | 949.75        | Ex-Kandla                  |
|     | Toluene                     | 80.5                             | 967.78        | Ex-Mumbai                  |







|         | Phenol                       | 83-85 (80 Molton<br>Doc) | Not Available | Ex-Kandla                         |
|---------|------------------------------|--------------------------|---------------|-----------------------------------|
|         | Phenolic Resin               | 140                      | 1683.10       | Ex-Indore                         |
| Р       | Phthalic Anhydride           | 103                      | 1238.28       | Ex-Mumbai                         |
|         | Propylene Glycol             | 93                       | 1118.06       | Ex-Kandla                         |
|         | PVC Resin                    | 74                       | 889.64        | Ex-Mumbai Market                  |
| S       | Sodium Nitrate (50Kg<br>Bag) | 61                       | 733.35        | Ex-Taloja Plant(-<br>Make-Lasons) |
|         | Soda ash light               | 38 (32 Kolkata)          | Not Available | Ex-Bhiwandi                       |
|         | Styrene Monomer              | 94                       | 1130.08       | Ex-Kandla                         |
|         | Styrene Monomer              | 97                       | 1166.15       | Ex-Mumbai                         |
|         | Sulphuric Acid               | 4.5 (10 Kolkata)         | Not Available | Ex-Vapi                           |
| V       | VAM                          | 72                       | 865.59        | Ex-Kandla                         |
|         | VAM                          | 73                       | 877.61        | Ex-Hazira                         |
| Numbers | 2,4-2,5 Xylenol              | 195                      | 2344.31       | Ex-Bhilai                         |

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.

| Producer Prices (Rs/kg) of Chemicals as on 15/12/2023 |                |                         |                                       |                          |                                       |
|---|----------------|-------------------------|---------------------------------------|--------------------------|---------------------------------------|
| Producers   | Chemicals Name | Current<br>Price(Rs/kg) | Import par-<br>ity price in<br>USD/MT | Production ca-<br>pacity | Location                              |
|   | Toluene        | 82                      | 985.81                                | 100,000 tonnes/<br>year  | Jamnagar                              |
|   | Mix Xylene     | 79                      | 949.75                                | 120,000 tonnes/<br>year  | Jamnagar                              |
|   | MEG            | 50.6                    | 608.32                                | 750,000 tonnes/<br>year  | Jamnagar                              |
| RIL   | DEG            | 69.3                    | 833.13                                | 65,000 tonnes/<br>year   | Jamnagar                              |
|   | TEG            | 112.7                   | 1354.89                               | NA                       | Jamnagar                              |
|   | LAB            | 135.5                   | 1629.00                               | 180,000 tonnes/<br>year  | 120ktpa Patalganga,<br>60ktpa Vadodra |
|   | РТА            | 86.6                    | 1041.12                               | 1,300,000<br>tonnes/year | Dahej                                 |
| Deepak Pheno-<br>lics                                 | Phenol         | 82.5                    | 991.82                                | 200,000 tonnes/<br>year  | Dahej                                 |
|   | Acetone        | 82                      | 985.81                                | 80.5                     | Dahej                                 |
|   | IPA Bulk       | 99.5                    | 1196.20                               | 30,000 tonnes/<br>year   | Dahej                                 |







|                                | LAB                      | NA     | Not Avail-<br>able | 120,000 tonnes/<br>year       | Koyali, Gujarat                    |
|--------------------------------|--------------------------|--------|--------------------|-------------------------------|------------------------------------|
|                                | MEG                      | 49.8   | 598.70             | ,                             | Ex-Odisha(Paradip                  |
|                                | MEG                      | 52.5   | 631.16             |                               | Ex-Panipat                         |
| IOCL                           | DEG                      | 65.7   | 789.85             |                               | Ex-Odisha(Paradip                  |
|                                | DEG                      | 65     | 781.44             |                               | Ex-Panipat                         |
|                                | Banzene                  | 69     | 829.53             |                               | Vadodara, Gujarat                  |
|                                | Paraffin Wax             | NA     | Not Avail-<br>able |                               |                                    |
|                                | C9                       | 81.75  | 982.81             | 69,000 tonnes /<br>year       | Kandla                             |
|                                | С9                       | 82.75  | 994.83             | 69,000 tonnes /<br>year       | Ahmedabad                          |
|                                | C10                      | 87.5   | 1051.94            | 30,000 tonnes /<br>year       | Kandla                             |
|                                | C10                      | 87     | 1045.92            | 30,000 tonnes /<br>year       | Ahmedabad                          |
| Arham Petro-                   | C10 - Imported<br>Repack | 100.75 | 1211.23            | 30,000 tonnes / year          | Bhiwandi Warehouse                 |
| chem Pvt Ltd<br>(Kandla Energy | MTO/White Spirit(kl)     | 59.65  | 717.12             | 75000 tonnes /<br>Year        | Kandla                             |
| & Chemicals Ltd<br>Refinery)   | MTO/White Spirit(kl)     | 60.65  | 729.14             | 35,000 tonnes /<br>year       | Ahmedabad                          |
|                                | De-Aromatised D40        | 130    | 1562.88            | 75000 tonnes /<br>Year        | Kandla                             |
|                                | De-Aromatised D40        | 131    | 1574.90            | 35,000 tonnes /<br>year       | Ahmedabad                          |
|                                | De-Aromatised D60        | 139    | 1671.07            | 75000 tonnes /<br>Year        | Kandla                             |
|                                | De-Aromatised D60        | 140    | 1683.10            | 35,000 tonnes /<br>year       | Ahmedabad                          |
| HOCL                           | Phenol                   | 98     | 1178.17            | 40,000 tonnes/<br>year        | Kochi                              |
| HOCL                           | Acetone                  | 92     | 1106.04            | 24640 tonnes/<br>year         | Kochi                              |
| SI GROUP                       | Phenol                   | NA     | Not Avail-         | 39500 tonnes/                 | Ratnagiri, Maharash-               |
|                                | Acetone                  | NA     | able               | year                          | tra                                |
|                                |                          |        | Not Avail-         | 24000 tonnes/                 | Ratnagiri, Maharash-               |
|                                | Phthalic Anhydride       | 89     | able<br>1069.97    | year<br>11000 tonnes/<br>year | tra<br>Ratnagiri, Maharash-<br>tra |
|                                | Benzene                  | NA     | Not Avail-<br>able | NA                            | NA                                 |









|                            | Octanol        | 127  | 1526.81            | 70,000 tonnes/<br>year  | Vishakhapatnam                     |
|----------------------------|----------------|------|--------------------|-------------------------|------------------------------------|
| Andhra Petro-<br>chemicals | N-Butanol      | 90   | 1081.99            | 30,000 tonnes/<br>year  | Vishakhapatnam                     |
|                            | Iso-Butanol    | 94   | 1130.08            | 4000 tonnes/<br>year    | Vishakhapatnam                     |
| Adipic acid                | Ex-Deepak      | NA   | Not Avail-<br>able |                         |                                    |
| Auipic aciu                | Ex-BASF        | 122  | 1466.70            | 210,000 tonnes/<br>year | Germany                            |
| NIRMA                      | LAB            | 135  | 1622.99            | 120,000 tonnes/<br>year | Vadodra                            |
| TATA Chemicals             | Soda Ash light | 39   | 468.86             | 900,000 tonnes/<br>year | Mithapur                           |
| GACL                       | Soda Ash light | NA   | Not Avail-<br>able |                         |                                    |
|                            | Acetic Acid    | 49   | 589.08             | 160,000 tonnes/<br>year | Bharuch                            |
| GNFC                       | TDI Drum       | 292  | 3510.46            | 67000 tonnes/<br>year   | Bharuch                            |
|                            | Aniline Oil    | 131  | 1574.90            |                         | Bharuch                            |
|                            | GNFC           | 87   | 1045.92            | 50000 tonnes/<br>year   | Bharuch, Gujarat                   |
|                            | Accord         | 84.5 | 1015.87            |                         |                                    |
| Ethyl Acetata              | Satyam         | NA   | Not Avail-<br>able | 50 tonnes/day           | Nevasa, Maharashtra                |
| Ethyl Acetate              | Bhange         | NA   | Not Avail-<br>able | 400ltr/day              | Ahmednagar, Maha-<br>rashtra       |
|                            | Jubilant       | 85   | 1021.88            | 280 tonnes/day          | Gajraula, U.P                      |
|                            | Laxmi          | NA   | Not Avail-<br>able | 100000 tonnes/<br>annum | Mahad, Maharashtra                 |
|                            | Meghmani       | NA   | Not Avail-<br>able | 400000 tonnes/<br>annum | Bharuch, Gujarat                   |
| Caustic Soda Lye           | GACL           | 30   | 360.66             |                         |                                    |
|                            | RIL            | 30   | 360.66             | 69500 tonnes/<br>annum  | Kurnool Distric,<br>Andhra Pradesh |
|                            | Cyclohexane    | 98.5 | 1184.18            | NA                      | Gujarat                            |
| GSFC                       | Cyclhexanone   | NA   | Not Avail-<br>able | NA                      | Gujarat                            |

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|      | Benzene                        | 80     | 961.77             | 90,000 tonnes/<br>year, Mumbai<br>Refinery, | 87000 tonnes/<br>year,Kochi |
|------|--------------------------------|--------|--------------------|---|-----------------------------|
|      | Toluene                        | 86     | 1033.90            | 16,000 tonnes/<br>year                      | Kochi Refinery              |
|      | Hexane(kl)                     | 92.65  | 1113.85            | 35,000 tonnes/<br>year, Kochi               | Mumbai Refinery             |
|      | Hexane(MT)                     | 139.54 | 1677.57            | 35,000 tonnes/<br>year, Kochi               | Mumbai Refinery             |
|      | MTO(kl)                        | 93.05  | 1118.66            | 19,000 tonnes/<br>year                      | Mumbai Refinery             |
|      | Paraffin Wax                   | NA     | Not Avail-<br>able |   |                             |
|      | Sulphur(Molten)                | 12.1   | 145.47             | 19,000 tonnes/<br>year                      | Mumbai Refinery             |
| BPCL | Acrylic Acid (Bulk)            | 70     | 841.55             | 47000 tonnes/                               | Kochi Refinery              |
| BPCL | Acrylic Acid (Packed)          | 79     | 949.75             | year  | Kochi Refinery              |
|      | 2-Ethyl Hexanol (B)            | 112    | 1346.48            | 47000 tonnes/                               | Kochi Refinery              |
|      | 2-Ethyl Hexanol (P)            | 122.5  | 1472.71            | year  | Kochi Refinery              |
|      | N-Butanol(B)                   | 89.5   | 1075.98            | 20000 1 /                                   | Kochi Refinery              |
|      | N-Butanol(B)                   | 90     | 1081.99            | 38000 tonnes/<br>year                       | Kandla Installation         |
|      | N-Butanol(P)                   | 100.5  | 1208.22            | year  | Kochi Refinery              |
|      | Iso-Butanol(B)                 | 88     | 1057.95            | 7000 tonnes/                                | Kochi Refinery              |
|      | Iso-Butanol(P)                 | 97     | 1166.15            | year  | Kochi Refinery              |
|      | Butyl Acrylate (B)             | 96     | 1154.12            | 180000 tonnes/                              | Kochi Refinery              |
|      | Butyl Acrylate (B)             | 96.5   | 1160.13            | year  | Kandla Installation         |
|      | Butyl Acrylate (P)             | 106    | 1274.34            |   | Kochi Refinery              |
|      | 2-Ethyl Hexyl Acry-<br>late(B) | 132.4  | 1591.73            | 10000 tonnes/                               | Kochi Refinery              |
|      | 2-Ethyl Hexyl Acry-<br>late(P) | 142.4  | 1711.95            | year  | Kochi Refinery              |
|      | Grasim                         | 35.5   | 426.79             | 33000 tonnes/<br>year                       | Nagda, Madhya<br>Pradesh    |
| MDC  | Meghmani                       | 35.5   | 426.79             | 397500 kg/<br>month                         | Ankleshwar, Gujarat         |
|      | Rayalseema                     | NA     | Not Avail-<br>able | 40 tonnes/month                             | Bharuch, Gujarat            |
|      | GACL                           | 35.5   | 426.79             | NA  | Bharuch, Gujarat            |

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### **New Chemical Products Listed on Chemical Market Leads Platform**

#### **ADAMANTANE / 281-23-2**



**CAS-Number :- 281-23-2** 

Molecular Weight :-136.23 mol/g

Package Size :- 25 kg/drum

**Molecular Formula :- C10H16** 

Available Qty :- Kgs

**Price :- Available on Request** 

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

#### ALUMINA OXIDE /BASIC/ ACIDIC/ NEUTRAL / 1344-28-1



CAS-Number :- 1344-28-1 Molecular Weight :- mol/g

Package Size :-45 Kgs Carboys with PolyBags

Molecular Formula :- 5000.0000 Kgs Available Qty :- 5000.0000 Kgs Price :- Available on Request

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

#### **DEG / RELIANCE**



**CAS-Number:** 

Molecular Weight :- 62.07 mol/g Package Size :-230 kg barrel packing Molecular Formula :- C2H6O2 Available Qty :- 10.0000 Tonnes Price :- Available on Request

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







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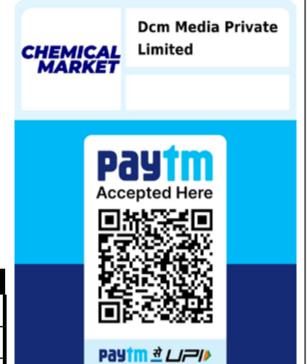
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ensured that our innovative KRONOS 9900 Digital
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highest stability in bottle,

drum, printhead, in-flight and on-substrate. Together, we've cleared a barrier to the uptake of more sustainable digital printing technologies."

Source: Covestro

## Viridis Chemical Wins at S&P Global Commodity Insights' 25th Annual Platts Global Energy Awards for Sustainable Chemicals Best Product

HOUSTON, Dec. 11, 2023 / PRNewswire/ -- Viridis Chemical, a manufacturer of renewable, biobased, low-carbon chemicals, announced that its commercial-scale ethyl acetate has been named a winner at the 25th Annual Platts Global Energy Awards in the Sustainable Chemicals Best Product category.

S&P Global Commodity Insights, the leading global independent provider of data, insights, analysis and benchmark prices for the commodities, energy and energy transition markets, honored industry excellence in 21 performance categories and winners from nearly a dozen countries at the Platts Global Energy Awards gala. The Awards program, now in its 25th year and often described as the "Oscars of the energy industry", recognizes corporate and individual innovation, leadership, and performance in the energy and petrochemicals sectors, and bestowed honors on companies from Belgium, Germany, India, Singapore, Thailand, UK, Ukraine, United Arab Emirates and US.

"We are honored to be named a winner of the esteemed Platts Global Energy Award," said Carl V Rush, Jr., CEO and co-founder of Viridis Chemical. "It is exciting to see the chemical industry's stewardship, advances, and focus on circular economy, climate protection, carbon mitigation and management, and environmental protection. With our proprietary catalytic process, Viridis is delivering high-quality, industrial-scale ETAC to many industries and pushing boundaries with a 40-80% lower carbon footprint than the next best fossil fuel-based manufacturing technology." Since its launch in February 2021, Viridis Chemical has gone from a startup chemical company to a world-class manufacturer of renewable, 100% biobased, low-carbon ethyl acetate with growing sales throughout North America and Europe.

Saugata Saha, President of S&P Global Commodity Insights, said: "At this celebratory quarter-of-a-century milestone for the Platts Global Energy Awards, we are particularly honored by the industry's continued recognition of the program as the energy industry's longstanding premier awards event and welcome the opportunity to congratulate not only the finalists and winners of 2023 but those across the history of the event. Each has contributed not only to a better energy future, but in recent years, has demonstrated an enhanced commitment to greater community service, energy security and a more sustainable energy transition."

An independent panel of judges chose the winners of the 2023 Platts Global Energy Awards from finalists selected from nominations that represented 33 different countries.

Viridis' 100% biobased ETAC is marketed worldwide by HELM AG, one of the world's largest chemical distribution companies. This partnership with HELM AG gives Viridis access to an international sales force, introducing Viridis' high-quality, low-carbon, sustainability ethyl acetate story to customers and prospects across the globe in various industries, including paints and coatings, adhesives, packaging, personal care, food and beverage, and pharmaceuticals.

"We are delighted to see our long-term partner Viridis recognized with this prestigious award. Our customers have been providing positive feedback on the quality of Viridis's ethyl acetate product and the







reliability of our service to markets. With the severely reduced carbon footprint, we are excited to continue to help customers deliver a game-changing impact in their markets," said Björn Steckel, President of Chemicals Americas of HELM.

Viridis Chemical's ethyl acetate is a

United States Department of Agriculture (USDA)-certified, biobased product meeting all requirements under the USDA BioPreferred® Program. Traditionally, ethyl acetate has been manufactured from fossil fuel-based resources. Earlier this year, Viridis received International Sustainability & Carbon Certification PLUS (ISCC PLUS) for its manufacturing facility in Columbus, Nebraska. Products certified to the ISCC PLUS standard assure companies, brand owners, and consumers that high sustainability requirements have been

met. Additionally, in June 2023, Viridis received the Independent Commodity Intelligence Services (ICIS) 2023 Product Innovation Award in the Small and Medium-sized Business category.

To learn more visit www.viridischemical.com. For more details about other Award winners of this year's Platts Global Energy Awards, access the December issue of the S&P Global Commodity Insights Magazine or visit the Platts Global Energy Awards website.

Source: Viridis Chemical

### Mott Corporation and South Korean Partner DL E&C Announce Eight-Figure Agreement with S-OIL to Advance Cutting Edge Chemical Production

RARMINGTON, Conn., Dec. 12, 2023 /PRNewswire/ -- Today Mott Corporation, a global leader in filtration and flow control solutions, announced a new eight-figure agreement with South Korean refinery S-OIL. Mott and its Korean partner DL E&C are teaming up to provide critical filtration technology for S-OIL's groundbreaking Shaheen project in Ulsan, South Korea.

This new partnership strengthens Mott's position as one of the world's top designers and manufacturers of filtration and flow control technology for a range of industries, including aerospace and defense, clean energy, healthcare, and petrochemical refining. Mott has delivered best-in-class engineering and technical services for customers in those industries and others for more than sixty years.

"This new partnership advances our strategy to apply our world class filtration and flow control technology to a variety of end mar-

kets," said Patrick Hill, VP of Process Systems, Americas, at Mott. "We're proud to partner with DL E&C to deliver this custom-engineered filtration system and play a part in the ambitious Shaheen project."

The Shaheen project will produce chemicals including ethylene, one of the most widely used chemicals in the world, which enables production of everything from plastics to textiles. Mott's advanced filter system removes fine particulates present in feeder streams for chemical conversion processes. The system is designed to run fully automated, 24 hours a day, 7 days a week without shutdown.

"We appreciate this innovative partnership with Mott as we embark on this important project for S-OIL," shared C.S. Kim, Vice President (Plant), Procurement at DL E&C. "Mott is uniquely capable of delivering the advanced filtration technology required for the Shaheen project."

This announcement follows Mott's acquisitions of Italian filtration supplier ASCO Filtri and Michigan-based water reclamation innovator Digested Organics. With the new partnership, Mott continues to diversify its business sectors and bolster its global network of partners and subsidiaries.

"Mott's world-class filtration products will help enable the success of our Shaheen project, which will be one of the largest refinery-integrated steam crackers in the world," added S-OIL. "We are thrilled to partner with Mott and DL E&C to meet increasing global demand for petrochemicals."

Source: Mott Corporation







### Panacol Launches UV Curable Optical Grade Adhesives

Panacol launches Vitralit® UC 1632 and Vitralit® UC 1658, optical grade adhesives for imprint replication of refractive lenses and diffractive optical elements (DOEs). The newly introduced adhesives are in the viscosity range of 100 to 200 mPas and can thus be easily applied via puddle dispensing, spin-coating or jetting.

### Offers Low-yellowing and Temperature Stability

These adhesives are suitable for microand nano-imprint lithography, wafer level optics, and wafer bonding. They offer excellent adhesion to commonly used grades of glass wafers and upcoming new polymer substrates including optical grade PET or PC.

Once applied and imprinted, the adhesives are quickly cured with UV light, creating a precise and durable structure on the wafer. Both adhesives are tailored

specifically to meet the high demands of optical reliability, such as low yellowing, temperature stability, and shape retention.

For black shading and masking purposes, Panacol also offers a black UV curable adhesive, Vitralit® BL UC 1103. This black epoxy adhesive is permeable to UV light while uncured. After curing it is opaque and light-blocking.

### Applications from Automotive Lighting to Time-of-flight Sensors

For optical bonding and alignment, Panacol has developed UV curable adhesives Vitralit\* 7311, Vitralit\* VBB-60, and Vitralit\* 1860, as well as heat-curable adhesives Structalit\* 5531 and Structalit\* 5511. These adhesives feature high adhesion to glass and widely used plastic substrates.

Adhesive Vitralit\* UD 8057 is formulated for dual curing using UV/visible light and atmospheric moisture. This allows the adhesive to complete its curing using moisture in shaded areas that cannot be reached with UV/visible light. Once cured, Panacol's optical grade adhesives are flexible and tension equalizing, reducing the stress on dissimilar substrates.

Panacol will feature new optical grade resins and adhesives for imprint and optical bonding applications at the SPIE Photonics West exhibition in San Francisco CA, USA from 30 January to 1 February 2024. These new adhesives can be used for light carpets in the automotive industry, for sensors in smart devices and wearables, or for creating structured light in projectors or time-of-flight sensing applications.

Source: Panacol

### Australian bottle manufacturer adopts Eastman Tritan™

KINGSPORT, Tennessee Promotional Product Industries (PPI), a leading Australian bottle manufacturer, decorator and supplier of promotional products, has launched a new promotional bottle made with Eastman Tritan™ copolyester.

The Metro Tritan 800-mL bottle offers industry distributors a high quality, durable, Australian-made drink bottle that is great for corporations, schools and sports teams to promote their brands. The bottle is available in 10 translucent colors with matching lids.

Free of bisphenol A and all other bisphenol compounds, Tritan allows products to have the look of glass but be shatter resistant.

"We are very excited to introduce our new Metro Tritan drink bottle to our customers and to incorporate Eastman Tritan copolyester into our manufactured products," said Peter Arthur, director of PPI.

"When we designed the Metro Bottle, we looked at various raw materials but decided on Tritan because of its durability, washability and aesthetics. This, together with the other features of taste, odor and scratch resistance, made the decision easy."

Source : Eastman











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