

## **Pigments**

| Country of Origin | Product                                     | Application                     |
|-------------------|---|---------------------------------|
| Russia            | Magnesium Oxide                             | Rubber, Plastics                |
| Japan             | Mag Oxide, Mag Carbonate, Mag Hydroxide,    | Steel, Rubber,                  |
| Japan             | NF series, Heat Reflective Pigment          | Paint /PCM                      |
| Japan             | Titanium dioxide                            | Paint                           |
| India             | PB 15, PB 15.3, PB 15.4, PG 7               | Paints, Inks and Plastics       |
| India             | Carbon Black                                | Inks and Paints                 |
| India             | CaCO3, Mg(OH)2, Kaolin                      | Fillers                         |
| India             | Colorants                                   | Fillers                         |
| China             | Titanium Dioxide                            | Auto, Decorative, Ink and other |
| China             | Carbon Black                                | Decorative, Rubber              |
| China             | Bentonite                                   | Wood                            |
| China             | Titanium Oxide                              | Auto, Decorative, Ink and other |
| China             | Calcined Kaolin Clay, Flash Calcined Kaolin | Decorative                      |
| China             | Fumed Silica                                | Decorative                      |
| Russia            | Carbon Black                                | Paints, Inks and Plastics       |
| Russia            | Titanium Dioxide                            | Paints, Inks and Plastics       |
| Russia            | Talc  | Paints, Inks and Plastics       |
| Russia            | Alminum flake                               | Paints, Inks and Plastics       |
| Russia            | Calcium carbonate                           | Paints, Inks and Plastics       |
| Japan             | Micromica, Filler for Barier property       | Paints, Inks and Plastics       |

#### Misc.

| Country of Origin | Product                            | Application |
|-------------------|------------------------------------|-------------|
| Japan             | KKC series, Liquid filling machine | Liquid fill |
| China             | Raw materials for Hair Dye         | Hair Dye    |





#### **Solvents**

| Country of Origin | Product   | Application                       |
|-------------------|---|-----------------------------------|
| Japan             | Glycol ethers   | Paints, Cleaning                  |
| Japan             | MMB Methoxy Methyl Butanol                                  | Paints, Fragrance, Cleaning, Inks |
| China             | Ethyl Acetate   | Paints, Inks and Adhesive         |
| China             | Buthyl Acetate  | Paints, Inks and Adhesive         |
| China             | n-Propyl Acetate  | Paints, Inks and Adhesive         |
| China             | DMC   | All                               |
| China             | PMA, Acetic Ester   | Auto and other                    |
| China             | 3-methoxy butyl acetate                                     | Electric                          |
| China             | Aliphatic, Aromatic, Alcohol, Esters, Alcohol ether, Ketone | All                               |
| China             | EEP, TBAC, IBIB, MMP, IAAC and so on                        | Auto, Industrial                  |
| China             | Soybean Oil   | Paints and Adhesive               |
| China             | Tertiary Butyl Acetate                                      | Paints and Adhesive               |

### **Additives**

| Country of Origin | Product   | Application                      |
|-------------------|---|----------------------------------|
| Japan             | Aluminum triphosphate   | Anti corrosion Paint             |
| India             | Haze Thickeners, Dispersing Agents  | Additives for water based paints |
| Japan             | Stearic Acid salt   | Plastics, rubber                 |
| Japan             | Basic zinc carbonate, Zinc oxide, composite magnesium hydroxide, Melamine cyanurate | Non-halogen flame retardant      |
| Japan             | Inorganic silver anti-microbial   | Paint                            |
| Japan             | Inorganic silver anti-microbial   | Adhesive                         |
| India             | Coal Tar Liquid   | Marine Paints                    |
| India             | Adipic Acid Dihydrazide (ADH)   | Emulsion Making                  |
| China             | n-Octyl Amine   | Auto                             |
| China             | Phenothiazine   | Resin                            |
| China             | PE Wax  | Ink, Adhesive                    |
| Russia            | Ethyl silicate  | Paints and Coatings              |





#### **Monomers**

| Country of Origin | Product   | Application                |
|-------------------|---|----------------------------|
| Japan             | Caprolactione, monomer, oligomer, polyol        | Auto Paint                 |
| Japan             | Cycloaliphatic Epoxy resin                      | Auto Paint                 |
| Japan             | Acrylate monomer, oligomer                      | Adhesive                   |
| Japan             | Acrylate phosphorous monomer                    | Adhesive                   |
| Japan             | Photopolymerization initiator, accelerant       | Adhesive                   |
| Japan             | Heat-resistant epoxy resin                      | Adhesive                   |
| Japan             | Liquid epoxy resin                              | Adhesive                   |
| Japan             | Acrylic Monomers, 4-HBA, HEA, HPA, IBXA         | Adhesive                   |
| India             | Pentaerythritol                                 | Alkyd Resins manufacturing |
| India             | DiPentaerythritol                               | DPHA Oligomer making       |
| India             | ADH (Adipic Acid Dihydrazide)                   | Paints, Emulsions          |
| China             | IBOA, IBOMA                                     | Resin                      |
| China             | HEMA, HPA, HPMA, HEA, AMPS                      | Resin                      |
| China             | AMA, EMA, BMA, IBMA, CHMA, EHMA,<br>DMAM, DEAM, | Resin                      |
| China             | TMP, TMA, TOTM, MEMA, BDDMA, EDGMA              | Resin                      |
| China             | DPGDA, NPGDA, TPGDA                             | UV Resin                   |
| China             | GMA   | Resin for Auto, FPC ink    |
| China             | Adipic Acid                                     | Resin                      |
| Russia            | Butyl, Methyl, Ethyl Acrylates, Acrylic Acid    | Resin                      |
| Russia            | Pentaerythrytol                                 | Resin                      |
| Russia            | Caprolactam                                     | Paint                      |
| Russia            | Bisphenol A                                     | Paint                      |
| Russia            | Fenol monomer                                   | Resin                      |





### **Resins**

| Country of Origin | Product  | Application                              |
|-------------------|--|--|
| Japan             | Epoxy acrylate oligomers                           | UV adhesive/ Coating                     |
| Japan             | Epoxy Resins and Hardeners                         | Epoxy Coatings for Electronics           |
| Japan             | UV Curable Resins, Water based UV Curable          | Electronics, Inks,                       |
| Japan             | Unsaturated polyester, Urethane acrylate Oligomers | Powder Coating                           |
| Japan             | Epoxy resin  | Adhesives Electronics, Automotive        |
| Japan             | Maleic acid Polyester                              | Adhesive                                 |
| Japan             | DCPD, Dicyclopentadiene                            | Paints, Ink, and Adhesive                |
| India             | PVB Resins   | Flexo and Gravure Inks                   |
| India             | Ketonic Resins                                     | Flexo and Gravure Inks                   |
| India             | Rosin Modified Phenolic Resins                     | Offset Printing Inks                     |
| India             | Maleic Resins                                      | Printing Inks                            |
| India             | Emulsions for Paints, Textiles, Adhesives          | Resins for water based paints            |
| India             | Emulsions for road marking paints                  | Resins for water based paints            |
| China             | Polyester resin                                    | Auto, Powder coatings                    |
| China             | C5 Resin, C9 Resin                                 | Marine                                   |
| China             | Polyvinyl chloride-Vinyl acetate Copolymer         | Adhesive                                 |
| Japan             | HS Series, Polyesterpolyol                         | Adhesive                                 |
| India             | SBR LATEX  | Adhesive                                 |
| India             | Polyamide (Reactive and non reactive)              | Epoxy Curing Agent for inks and coatings |
| China             | Isocyanate   | Auto                                     |
| China             | Photoinitiator                                     | Resin                                    |
| China             | Methylated Amino                                   | Auto                                     |
| Russia            | Hexamin, PA-6                                      | Plastics                                 |
| Russia            | MEA, DEA, TEA                                      | Plastics, Rubber                         |

