There are three product Categories 1.**Silicones 2.API’s ( Active Pharmaceutical Ingredients ) 3.Silver Ion Technology 4.Pigments/Paints** 5.Products for Renewable Energy like Solar Energy. **6.Water Treatment Chemicals** 7.Construction Chemicals-

1. **Silicones**- a) **Silicone Surfactant Polyether Siloxane based** (**Silicone Spreader Sticker and Wetting Agent)** – Agriculture –Agro Performance Enhancer. It is a **Spray Adjuvant** with Superior spreading over non-ionic surfactant organic certified APEO free for many agricultural applications. Its components provides excellent rain fastening properties and therefore is very effective in pesticide applications under humid and wet weather conditions. On mixing with the insecticides, fungicides, herbicides and defoliators increase their efficacy. As a result the crops, fruits and vegetables are better protected from diseases and pests resulting in better yield .These **silicone spreader sticker /wetting agents** can be mixed in most of the pesticides solutions to improve their performance many folds.

b) **Polymethylhydrogen Siloxane** -- It imparts free flowing characteristic to powder and granular materials i.e. **Fire Extinguisher powders** thus reducing caking and imparts excellent **water repellence**.

C) **Potassium Siliconates / Siloxanes Emulsions** – Imparts **Water Repellency** to building materials during their manufacture.

d) **Siloxane Based Emulsion**- It is used for treatment for bricks, stones and concrete as an **admixture** for concrete and other cement based formulation.

e) **Polydimethyl Siloxane Based**- Release agent for ceramic Material and Rubber also imparts shine to tile composites. Non-ionic dimethyl silicone fluid emulsion. It is an extremely stable, water-thinned emulsion widely used as a release agent for rubber (gloves, footwear) and plastic products. In particular, Silicone Emulsion is used in the production of rubber latex gloves.

f) **Hydroxy terminated Silicone Fluids** (OH) -Silicones are inert and heat-resistant, rubber like compounds used in sealants, adhesives, for construction, medical and insulation application. Silicone sealants prevents water and air penetration, have low thermal conductivity and low toxicity. Hydroxyl (OH) terminated silicones is a main ingredient in preparing such silicone adhesives and sealants. Low moisture content and good molecular weight distribution characterises the quality of the polymer. These hydroxyl polymers are used as intermediates in applications such as textiles, rubber processing and sealants, adhesives, paints and filter treatments.

g) **Leather-Polysiloxane Fluid-Imparts** **–Silky, smooth touch, good gloss, improves abrasion resistance, oil and water resistance, feel modifier.**

h) **Poly Dimethyl Siloxane/ Silicone Oil / Silicone Fluid**: Silicones for use in antiperspirants, deodorants, hair sprays, cleansing creams, skin creams, lotions, bath oils, suntan products, nail polishes etc. They can form good water repellancy and protective breathable films on skins, due to low viscous and low surface tension. It has good stability over broad range of temperatures and also compatible with other system additives. These are low Surface tension non greasy films which can form protective breathable films on skins with good water repellency. It has good stability over broad range of temperatures and also compatible with other system additives. 60% Si anionic emulsion for improving wet and dry combing, imparts soft feel to the hair and provides good shine and gloss. Used in hair care, shower gels, shampoo, conditioners, masks & mousse, skin care, creams, soaps and liquid soaps.

i) **Paper-**Solventless Silicone Coating System – This Two component system is designed for use in the manufacture of release liners for pressure sensitive tapes and labels. These are suitable for both paper and plastic substrates and it is designed to perform as a fast cure system at medium temperatures.

j) **Silicone on Home Care**: Amino Micro Silicone with super effective neutralizing property on water. Ultra-foam booster. Can even boost foam at any pH level. Almost neutralize any pH of any type of water. Extra ordinary color and perfume retainer. Soft feels in washing and after washing.

Gentle on hands and improve the after wash feel. Now dish washing is not only the requirement, it is directly related to our hygienic. This product is an Amino Micro Silicone with super effective neutralizing property on water.Gentle on hands and improve the after wash feel. Normally toilet cleaners are a combination of DM Water + Acid +Alsta tetrahydrocannabinol (Q-Alamine) + Perfume + Color. It can be designed as per the requirement of hygiene orientation (Adding or Submissions). **Silicone Spreaders**. They are designed to meet super spreading requirement at the bowl level applications in toilet cleaners.

k) **Glass Cleaners**: Glass cleaners are made to meet the requirements of protecting cleanliness and high level visibility & transparency on glasses. Basically common formulations are solvent based depending on the alcoholic fast curing properties but conventional Glass Cleaners doesn’t have the properties of Anti Freezing Agent for Winter Season or Anti Fog Agent. Our Glycol Modified Polysiloxane product is a Silicone Emulsion with super water solubility. As a combination of various range of Silicone Polyether at low to high molecular weights & it is very effective. Smooth feeling on Glass. Non Oily. Very efficient wetting agent. Effective Micro emulsifier – which can emulsify wide range of darts to dissolve in. Superior detackification. Improves clear vision.

l) **Silicones** in **Hand Wash**: Surfactants are mixed with foam boosting agents inclusive of water base along with aesthetic improvers like thickeners / colours and perfumes in liquid form can be used as Liquid Hand Wash. But we are entering the new age of hand hygiene. Normal washing now a days are not the only criteria. Retaining the feel as long as possible is the challenge along with the cutting age Silver technology. This product is an Amino Micro Silicone with super effective neutralizing property on water with quick submission. Ultra-foam booster. Can even boost foam at any pH level.

Extra ordinary colour and perfume retainer .Excellent clarity in transparent products also. (Even with IVERMECTIN)Soft feels in washing and after washing. Gentle bunce in washed skin. Superior conditioner.

m) **DEFOAMERS/ ANTIFOAMS**- SILICONE BASED –We have a wide variety and range of defoamers and antifoams designed to be used in a wide variety of foaming systems which have excellent defoaming /antifoaming property. It can be used in adhesive, glue manufacturer,solvent based paint and ink manufacture,resin polymerization,soaps ,detergents , pulp ,paper processing ,waste water treatment ,

n) **PAINT, INK INDUSTRY, ADHESIVE**

o) **SILANES-AMS,VTMS,GTMS ,MTMS ,MAAS-**In polymer systems **silanes** are often **used** as dispersing agents for fillers, and a crosslinking modifier that improves the mechanicals properties of the polymer/**silane** blend. **Silanes** also are **used** in adhesives and sealants that increase adhesion, temperature and chemical resistance

p) **SILICONE RUBBER** -It is a two component silicone elastomer crosslinking at room temperature. The polymerisation can be accelerated by heat (max.150oC). The silicone components are delivered as liquids, which once mixed and cured transform into a transparent, elastic and resistant material. Polymerisation occurs without formation of heat. Label manufacturing Moulding applications requiring low shrinkage e.g. toys, jewellery, automotive etc.