



**GPPL**

**Gayatri Polychem Pvt. Ltd**

**( AN ISO 9001:2008 CERTIFIED ORGANISATION )**



**We are one of the leading manufacturers and exporters of  
a wide variety of silicone-based products.**

## Profile

Established in 2001, we are engaged in developing and supplying a wide range of silicone fluids based formulations, including textile auxiliary and speciality chemicals, release agents and emulsion as per the specifications of our esteemed clients. Our product range includes amino silicone fluids, silicone anti foams, silicone emulsion, non silicone de-foamers, silicone gel, silicone grease, thread lubricant, silicone softener and silicone fluids.

All our products are produced by using fine quality raw materials to ensure durability and efficiency. These products are appreciated by our clients for its effectiveness and purity. In addition, it is widely used in various applications in leather, textile, silk, rubber, paint and printing industries.

Our operations are performed under the visionary leadership of **Mr. K.P. Yadav** whose industrial expertise has enabled us in carving a niche for ourselves in this field.

Our team of highly skilled professionals has massive experience in this industry and helps us in formulating and processing high quality range of industrial chemicals.

## Thread Lubricant

**Gayatri Silicone Thread Lubricant** is a STAINLESS – ODORLESS Lubricant for the Apparel & Sewing Industry. The Thread Lubricant deposits a stainless coating on the thread that cools the needle and prevents thread breakage. Other benefits include easier needle penetration & elimination of carbon, sizing or adhesive buildups on the needle or hook. Silicone Thread Lubricant is ideally suited for High Speed Sewing and Extreme Needle Heat environments.

### Features:

- ★ Prevents Thread Breakage
- ★ Cools Needle
- ★ Prevents Fusing of needle to material
- ★ Provides Protective Finish for Thread
- ★ Reduces Friction
- ★ Reduces Heat Buildup



Thread Lubricant



Sewing Thread Lubricant



Silicone Thread Lubricant



Thread Lubricant Emulsion

## Silicone Emulsion

**Silicone Emulsion** are inert, heat stable, non-toxicity products, which suit many industrial applications where lubrication, gloss, antistatic, protective and release properties are advantageous.

Silicone Emulsion can be divided into three groups depending on the type of emulsifier system used, they can be anionic, cationic and non-ionic. Most emulsion are non-ionic as they are compatible with either of the other two systems but depending on the application, cationic or anionic emulsion can be chosen.

The viscosity and physical characteristics can be altered by using different viscosity base polymers. High percentage solids versions can be supplied as concentrates and diluted with water prior to application, this makes for more cost effective transportation.

### Features:

- ★ Range of viscosities
- ★ Range of solid contents

### Uses:

Industry	Application
Rubber & Plastics	Release agents & Lubrication
Car Polish & Dressings	Protection, weather resistance, gloss and spreadability
Household cleaners and polish	Protection, improved gloss and spreadability
Textile finishing	Lubrication and antistatic agent



Custom Made Emulsion



Emulsion for Offset Printing



Hydrophobic Silicone Emulsion



Mould Releasing Emulsion



Emulsion for Rubber Releasing



Silicone Emulsion



High Temperature Release Agent

## Silicone Fluids

**Gayatri silicone Fluids** are available in a broad range of viscosities and are used in a wide range of applications.

### Features:

- ★ Excellent water repellency
- ★ Good dielectric properties over a wide range of temperatures and frequencies
- ★ Low glass transition(Tg) temperature
- ★ Low surface tension
- ★ Heat stability
- ★ Oxidation resistance
- ★ Very low vapor pressure
- ★ High flash point
- ★ Inert, nonreactive

### Applications:

- ★ Power transmissions
- ★ Lubricants
- ★ Silicone aerosol sprays
- ★ Oxidation resistance
- ★ Damping fluids
- ★ Additives for automotive polishes and dressings
- ★ Heat transfer fluid, High temperature oil baths
- ★ Water repellent treatment of textiles and powders



Silicone Fluids



Silicone Fluids



Silicone Fluids

## Silicone Softeners

Available with us is a premium quality array of silicone softeners which is formulated in accordance with industrial quality standards.

These **silicone softeners** are used as a finishing agent in thread and textile industries and for washing all types of garments. Offered at industry leading prices, these softeners are known for imparting smoothness to the textile to which they are added.

### Features:

- ★ The ability to completely wet a wide variety of substrates – fabric and leather
- ★ The ability to form thin films that do not interfere with the bulk properties of the substrate
- ★ Spreadability and lubricity, Permeability, breathability

### Applications:

- ★ Textile softeners, including hydrophilic softeners
- ★ Thread or fiber lubricant



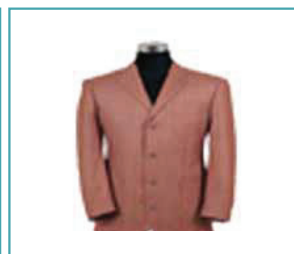
Silicone Softeners



Emulsion



Silicone softener for textile finishing



GP SF-S Emulsion

## Silicone Grease

**Silicone greases** are formulated to provide very durable, non-setting, work stable products used to lubricate, electrically insulate and act as a heat transfer medium.

They provide excellent protection against moisture and other harsh environmental conditions. Silicone polymers in general exhibit good resistance and remain stable when operating in an environment with elevated temperatures and silicone greases are no exception.

### Features:

#### 1. Electricals & Electronics

- ★ Silicone polymers have very good electrically insulating properties enabling silicone grease to be used as an electrical insulator and lubricant. On the micro level they can be used to lubricate switches, electrical contacts and cable joints.
- ★ On a much larger scale they have been used for many years on high voltage insulators to provide environmental protection and prevent arcing or corona discharge.

#### 2. Lubrication & Mould Release

Silicone grease is an excellent lubricant involving the following material interfaces:

- ★ Plastic to plastic
- ★ Rubber to rubber
- ★ Rubber to plastic
- ★ Plastic to metal
- ★ Rubber to metal

These greases can also be used as a heavy duty mould release for the plastics and rubber industry.

#### 3. Other applications include:

- ★ Protection of battery terminals
- ★ Potting of small electronic components
- ★ Screw threads lubrication to prevent sticking and corrosion
- ★ Packing of mineral fibre glands to prevent sticking
- ★ Laboratory stop-cock lubrication
- ★ Vacuum sealing of ground glass joints



Silicone Gel



Silicone Smooth Grease



Silicone Grease

## Silicone Defoamer / Non Silicone Defoamer

**Gayatri Polychem Silicone anti foam and Non-silicone** based defoamer are used in various industrial applications to control or to eliminate foam generation thereby optimizing productivity. They will perform in difficult conditions such as high temperatures and high pH values.

### Features:

- ★ Reduce surface tension(Approx 21mN/m)
- ★ Improve efficiency of systems.
- ★ Prevent or control foam build up
- ★ Destroy foam
- ★ High efficiency in all the systems
- ★ Low concentration (parts per million)
- ★ Chemically inert - will not interfere with the chemical system
- ★ Allow for wetting out in coatings
- ★ Liquid and powder versions

### Applications:

- ★ Detergents, cleaners and polishes formulations
- ★ Pharmaceutical and food preparation processes
- ★ Petrochemical and agrochemical industry
- ★ Textile and leather industry
- ★ Pulp and paper production
- ★ Wastewater-treatment plants
- ★ Paints, coatings and dispersions formulations
- ★ Allow for wetting out in coatings
- ★ Liquid and powder versions



GP SD 30 Emulsion



GPSD Compound



Defoamer In powder form

## Other Products



Mould Releasing Agents



GP21 R Emulsion



G P Silicone Spray



Silicone Base Formulation



Silicone Defoamer



Dimethyl Silicone Fluids

## Company Factsheet

Year of Establishment	2001
Nature of Business	<ul style="list-style-type: none"><li>▪ Manufacturer</li><li>▪ Exporter</li><li>▪ Wholesaler</li><li>▪ Retailer</li></ul>
Export Destinations	<ul style="list-style-type: none"><li>▪ Australia / NZ</li><li>▪ Indian Subcontinent</li><li>▪ Caribbean</li><li>▪ East Europe</li><li>▪ East Asia</li><li>▪ Central America</li><li>▪ North Europe</li><li>▪ Middle East</li><li>▪ South America</li><li>▪ South / West Europe</li><li>▪ South East Asia</li><li>▪ North America</li></ul>

## Contact Details

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