



SHREE GANESH **REMEDIES** LIMITED  
excelling in chemistry

CORE COMPETENCIES IN  
**PHARMACEUTICAL INTERMEDIATES &  
FINE CHEMICALS**

ISO 9001, 14001, 45001 and Indian GMP

[www.ganeshremedies.com](http://www.ganeshremedies.com)

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## ABOUT SGRL

SGRL has developed its core competencies as an expert in handling hazardous reactions by constantly developing new products across wide range of technologies. The product portfolio is built around High Performance Chemicals, API intermediates and Fine-Chemicals while the technology portfolio is built around hazardous reactions, low temperature and high pressure reactions along with access to continuous manufacturing. Our R&D and Pilot Plants are well capable of scaling up any process from few grams to kilo scale to multi-ton lot scale. We manufacture our products on multipurpose plant which are ISO and GMP certified. Also, dedicated plant facility is employed for long-term projects.

Since

**2004**

Area

**40,000** sq m

Total Blocks

**7** (2 new upcoming)

### Accreditation



**10+**

Specialty and  
Fine Chemicals



**30+**

Pharmaceutical  
Intermediates



**10+**

Chemical Reaction  
Technologies

# CORE COMPETENCIES

## Halogenation

### Chlorination

- Chlorination using Thionyl Chloride, Sulphuryl Chloride, Oxalyl Chloride and Mesyl Chloride
- Chlorination using HCL gas and Chlorine Gas
- Chlorination under UV light

### Bromination

- Bromination using Bromine, HBr and other bromide salts
- Bromination under UV light

### Iodination

- Iodination using Iodine, KI and Copper Iodide

## Methylation, Alkylation & C-C bond formation

### Friedel-Crafts Reaction

- Using  $AlCl_3$ ,  $FeCl_3$

### DMS & DES Alkylation

- From room temp to high temp

### Pd-cat coupling

- Heck, Suzuki

### Cyanation

- Using  $CuCN$ ,  $KCN$ ,  $NaCN$

### Grignard

- $Mg$  or  $AlkMgX/ether$ ; Vinyl  $MgCl$

## Oxidation

- Using TEMPO and  $NaOCl$
- Using permanganate salts
- Using metals such as  $Fe$ ,  $Cu$ ,  $Co$  and  $Cr$

## Reduction

- Catalytic  $H_2$  reduction upto 40 bar using  $Ra-Ni$ ,  $Pt/C$ ,  $Pd/C$  and  $Rt/C$
- Reduction using Hydride Salts
- Reduction using pyrophoric reagents such as  $LiAlH_4$  and  $DIBAL$

## Low-Temperature Chemistry

- Metalorganic reactions
- Selective oxidations and hydrogenations
- Cryogenic quenching
- Selective C-C bond formation

# CORE COMPETENCIES

## Halogenation

### Strength

- In-house dedicated R&D team for chlorination project.
- 2 patents under filling process showcasing innovation.
- Chlorination using HCL gas with in-house HCL gas generation.

## Grignard

### Strength

- Dedicated block for Grignard reactions.
- In-house nitrogen generation plant to maintain continuous inert atmosphere throughout reaction for safe and efficient reactions.

## Friedel Craft's

### Strength

- Dedicated block for Friedel Craft's bulk production with output of 2MT per day.
- Dedicated in-house effluent treatment facility of spent waste and potential to convert the same to by-product for sustainability of the process

## Suzuki & Sonagashira Coupling

### Strength

- Scaled up challenging commercial batches in Suzuki coupling reactions upto 200 kgs output.
- Trained chemist to handle precious metal based catalyst to handle challenging reaction.

## Custom Synthesis

### Strength

- In-house R&D strength for quick screening of molecule.
- Kilo lab available with dedicated team for process optimization and scale up screening.
- Dedicated Pilot plant for process optimization and validation.
- Joint IP from the patented product belongs to customer while maintaining the data secrecy.

# R&D STRENGTH

PROCESS CHEMISTRY LABS	KILO-LAB	ANALYTICAL LABS
<ul style="list-style-type: none"><li>- 0.1-10 Ltr glass reactors</li><li>- 2 Ltr photo reactor</li><li>- 0.2-2 Ltr SS316 &amp; HC22 autoclave with 100 bar pressure &amp; 200 deg C capability</li><li>- Glass flow reactor</li><li>- 8 standard fume-hoods</li><li>- 4 walk-in fume-hoods</li></ul>	<ul style="list-style-type: none"><li>- 10-30 Ltr glass reactor</li><li>- 25 Ltr SS316 autoclave with 100 bar pressure &amp; 200 deg C capability</li><li>- 30 Ltr cryogenic reactor with temp up to (-)50 deg C</li><li>- 50 Ltr vacuum tray dryer</li><li>- 5 standard fume-hoods</li><li>- 1 walk-in fume-hoods</li></ul>	<ul style="list-style-type: none"><li>- GC &amp; GCMS</li><li>- HPLC</li><li>- IR</li><li>- Autotitrator</li><li>- Auto KF</li><li>- TLC</li><li>- Turbidity Meter</li><li>- Tinto Meter</li></ul>



## PILOT FACILITIES

**12** Reactors with a  
**Total capacity of 6900 Ltr**

**8** Glass Lined Reactors  
**From 600 to 1000 Ltr**

**4** Stainless Steel Reactors  
**From 600 to 1000 Ltr**

**3** Filter Dryers (up to 250 Ltr)  
**ANFD, RCVD & VTD**

**2** Hydrogenation Reactors  
**2 Ltr & 25 Ltr, 100 bar**

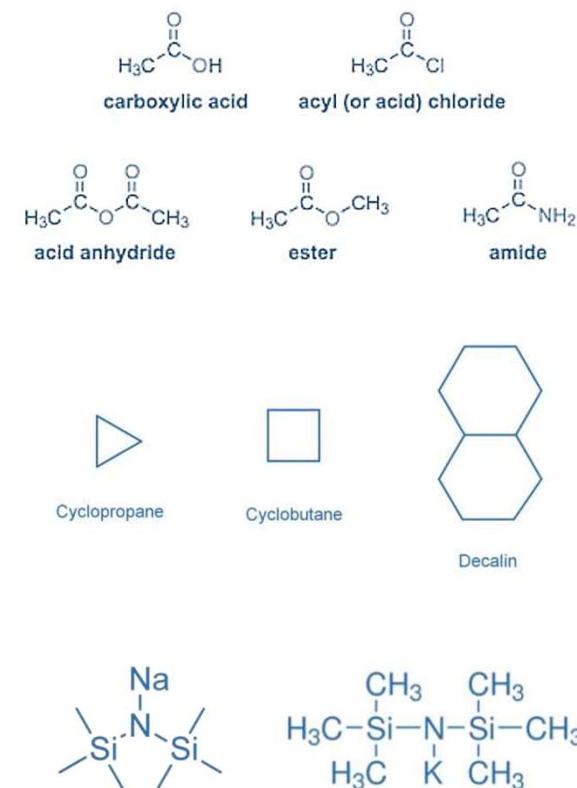
**4** Distillation Setup  
**Short Path & High Fractional**



# Product Classification

## CHEMISTRY-WISE

- Heterocycle Synthesis
- Nitration
- Chiral Resolution
- Esterification
- Dehalogenation
- Diels-Alder Reaction
- Hydrolysis
- Silyl Derivatives
- Oxime Formation



\*\* To know more about chemical reaction technologies please contact us or visit [www.ganeshremedies.com](http://www.ganeshremedies.com)\*\*

# PRODUCTS BY SEGMENTS



**HUMAN HEALTH API INTERMEDIATES**

## Intermediates for...

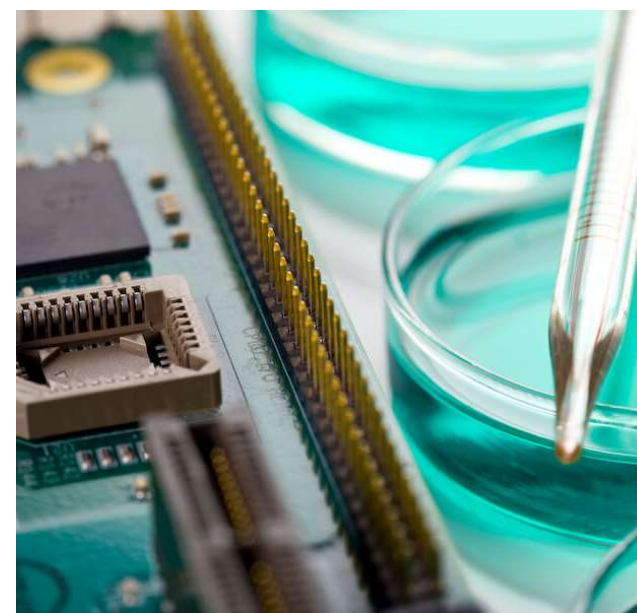
- Antipsychotic API's
- Antidepression API's
- Oncology API's
- Diuretic API's



**CUSTOM SYNTHESIS**

## Custom Synthesis for..

- New Molecule Entities
- Exclusive toll Manufacturing
- Custom research & manufacturing



**SPECIALTY & FINE CHEMICALS**

## Chemical Intermediates for...

- Electronic Chemicals
- Polymer Chemicals
- Fragrance Chemicals



# MANUFACTURING INFRASTRUCTURE

**35** Glass Lined Reactors

**1000 to 25,000 Ltr**

\*2 cryogenic (-30 Deg C)

**28** Stainless Steel Reactors

**1000 to 15,000 Ltr**

\*1 cryogenic (-40 Deg C)

**3** Autoclave Reactors

**2000 Ltr**

\*3 autoclaves (up to 40 bar)

**9** Dryers

**1000 to 2500 Ltr**

\*Atmospheric & vacuum dryer

**8** Distillation Setup

**Upto 50 Stages**

\*High vacuum upto 1 mbar  
\*Short path distillation

**2** Warehouse

**Upto 500 Pallets**

\*Storage Tanks available in addition to warehouse upto 100 KL

## PACKAGING OPTIONS



DRUMS



IBC TANKS



ISO TANK CONTAINERS

# QMS FACILITIES

- Agilent Gas Chromatograph
- Agilent Gas Chromatograph & Mass Spectrum
- Shimadzu G.C Head Space
- Shimadzu HPLC
- Shimadzu Analytical Balance
- Lovibond Tinto meter
- Metro-Ohm Auto Titrator
- Metro-Ohm Auto KF
- Hazen Meter
- Potentiometric Titrator
- Turbidity meter
- Auto Melting-Point Analyser



## QUALITY ACCREDITATION'S

- ISO 9001:2015 Certified (Bureau Veritas, UK Accredited)
- ISO 14001:2015 Certified (Bureau Veritas, UK Accredited)
- ISO 45001:2018 Certified (CCPL)
- DSIR Recognised In-house R&D Lab
- Bronze Certified Ecovadis



THANK YOU



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