

**Project Type:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Contract / Toll Manufacturing | <input type="checkbox"/> Material Procurement |
| <input checked="" type="checkbox"/> Scale Up / Piloting           | <input type="checkbox"/> Other :              |
| <input checked="" type="checkbox"/> Research & Development        |   |

**Are you willing to co-invest capital?**

- Yes       No

**Sector:**

- |  |  |
|--|--|
| <input type="checkbox"/> Agrochemical    | <input type="checkbox"/> Performance             |
| <input type="checkbox"/> Pharmaceuticals | <input type="checkbox"/> CASE                    |
| <input type="checkbox"/> Personal Care   | <input checked="" type="checkbox"/> Industrial   |
| <input type="checkbox"/> Electronics     | <input type="checkbox"/> Fuel Oil/Lube Additives |
| <input type="checkbox"/> Renewable/Green | <input type="checkbox"/> Other :                 |

**Raw Materials:**

- I will source materials       You will source materials       Combination sourcing

Chlorosilanes - provided  
Alkylating agents (e.g. alkyl aluminum, alkyl zinc, etc)  
solvents

**Professional Certifications:**

- |   |                                    |                                  |
|---|------------------------------------|----------------------------------|
| <input checked="" type="checkbox"/> ChemStewards® | <input type="checkbox"/> ISO 9001  | <input type="checkbox"/> cGMP    |
| <input type="checkbox"/> Responsible Care®        | <input type="checkbox"/> ISO 14001 | <input type="checkbox"/> Other : |

**Process/Technology Type:**

Alkylation - Grignard reagents

### Unit Operations/Equipment:

Solids handling, filtration, distillation/solvent recovery, exothermic reaction

Specialized equipment needs: solids filtration; distillation/solvent recovery

Analytical equipment needs:

Equipment material of construction: Stainless steel

### Operating Conditions:

Temperature range: Varies by approach

Pressure range: Varies by approach

Viscosity range: Slurry

Some raw materials and the reaction mixture are corrosive, flammable and moisture reactive. Reaction generates insoluble salt.

### Processing Volumes:

R&D: 2kg	Q4	▼ 2024	▼
Pilot: 18 MT	Q2	▼ 2025	▼
Commercial: 5000 MT	Q1	▼ 2026	▼

### Packaging Type:

Drum/Tote  
  Supersack  
  ISO/tank truck  
  Other : Cylinder

### Delivery & Transportation:

Domestic  
  International  
  Road  
  Rail  
  Sea  
  Air

### Storage Conditions:

Ambient  
  Blanketing required  
  Other :

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