

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 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 checked="" type="checkbox"/> Renewable/Green | <input checked="" type="checkbox"/> Other : HI&I |

Raw Materials:

- I will source materials You will source materials Combination sourcing

Glycolipids
Surfactants

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:

Sulfation process

Unit Operations/Equipment:

Sulfation process utilizing moderately viscous liquid. Depending on pathway taken, may need to strip solvent from final product.

Specialized equipment needs:

Analytical equipment needs: TLC, potential HPLC

Equipment material of construction: Glass lined, SS 316 or higher

Operating Conditions:

Temperature range: 5 - 120 C

Pressure range: 0-2 ATM

Viscosity range: 200 (@80C)- 5000 cPs (@23C)

Multiple pathways can be utilized to manufacture this product.

Processing Volumes:

R&D:

Pilot: 100 kg	Q2	2024
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Commercial: 1000 MT/year	Q4	2024
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Packaging Type:

Drum/Tote Supersack ISO/tank truck Other :

Delivery & Transportation:

Domestic International Road Rail Sea Air

Storage Conditions:

Ambient Blanketing required Other :

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