



Boulder Scientific Company™

INNOVATIVE SPECIALTY CHEMICAL SOLUTIONS

SOCMA 2024
Nashville, TN

Confidential



Our Heritage



- **1950:** John Birmingham pioneered the synthesis of metallocenes at Harvard during his graduate work with Sir Geoffrey Wilkinson.
Bis(Cyclopentadienyl) Compounds of Ti, Zr, V, Nb and Ta. J. Am. Chem. Soc. **1954**, 76 (17), 4281
- **1961:** Boulder Scientific is incorporated in Boulder, CO.
- **1972:** John Birmingham shifts his focus to Boulder Scientific full time and begins making custom chemicals for catalog and industrial chemical companies.
- **1979:** Spurred by continued growth, Birmingham purchases a 10-acre parcel in Mead, CO to develop a manufacturing plant.

Who We Are Today

Custom Specialty Chemicals

Advanced Catalysts

- Polyolefins Industry

Electronic Materials

- ALD and CVD Precursor

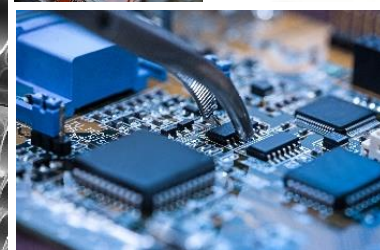
Performance Materials

- Defense and Aerospace Industry

Fine Chemicals

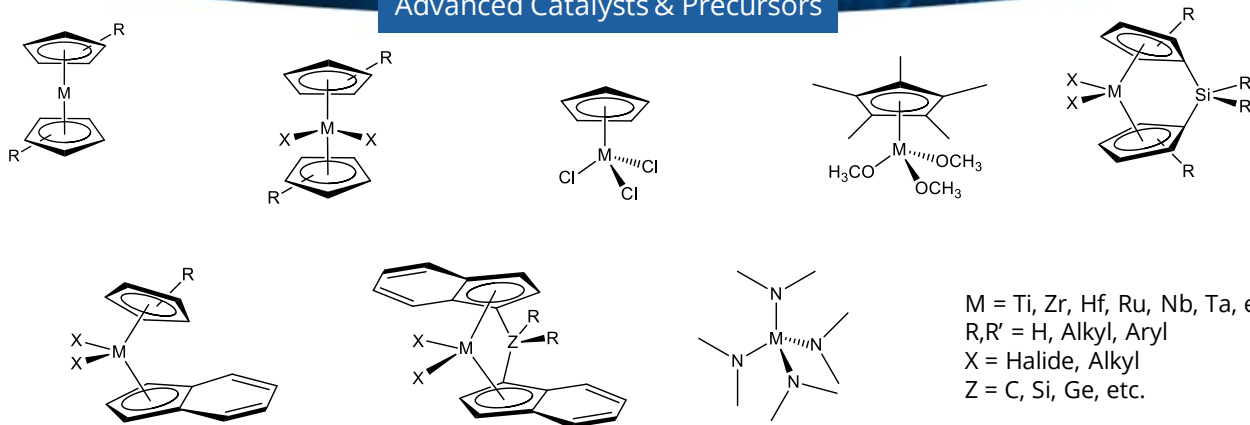
- Research and Development
- Life Sciences

- Over 50 years of experience in commercial manufacturing of organometallic compounds
- >200 full time employees and growing

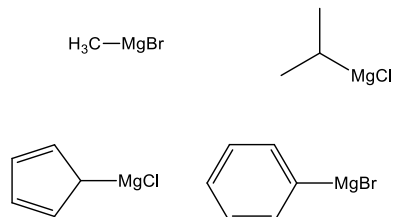


BSC Product Offerings

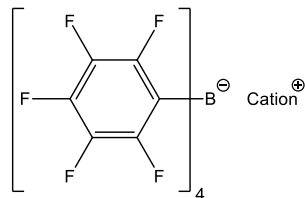
Advanced Catalysts & Precursors



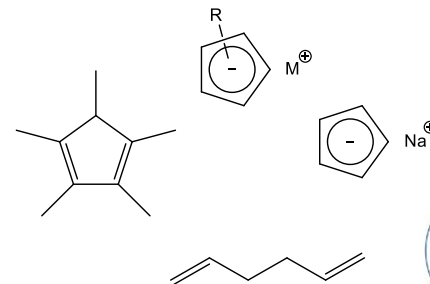
Grignard Reagents



Boron Compounds

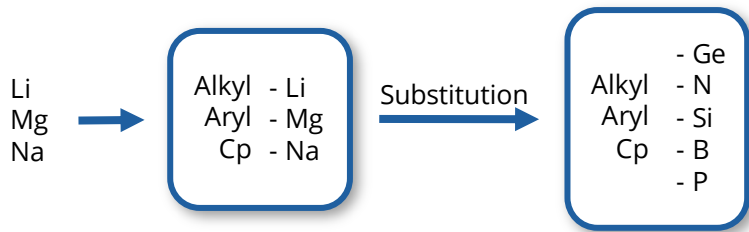
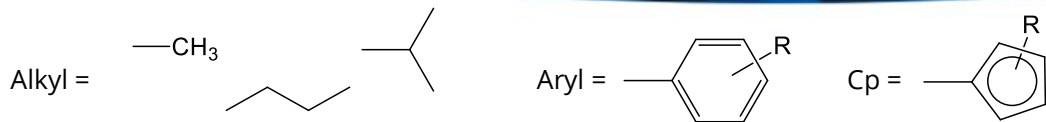


Organic Compounds



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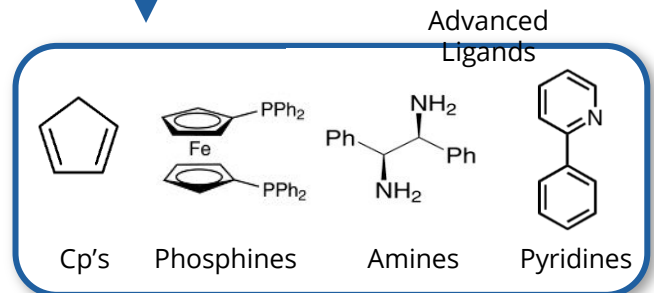
BSC Core Capabilities



BSC Core Capabilities:

- Organic chemistry
- Pyrophoric reagents
- Commercial scale manufacturing of air/moisture sensitive compounds
- Solid Supported Catalysts

Synthetic Organic Chemistry



Solutions for Your Custom Chemical Needs

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Facilities in Northern Colorado

Mead

R&D, Pilot Plant,
Manufacturing,
Analytical

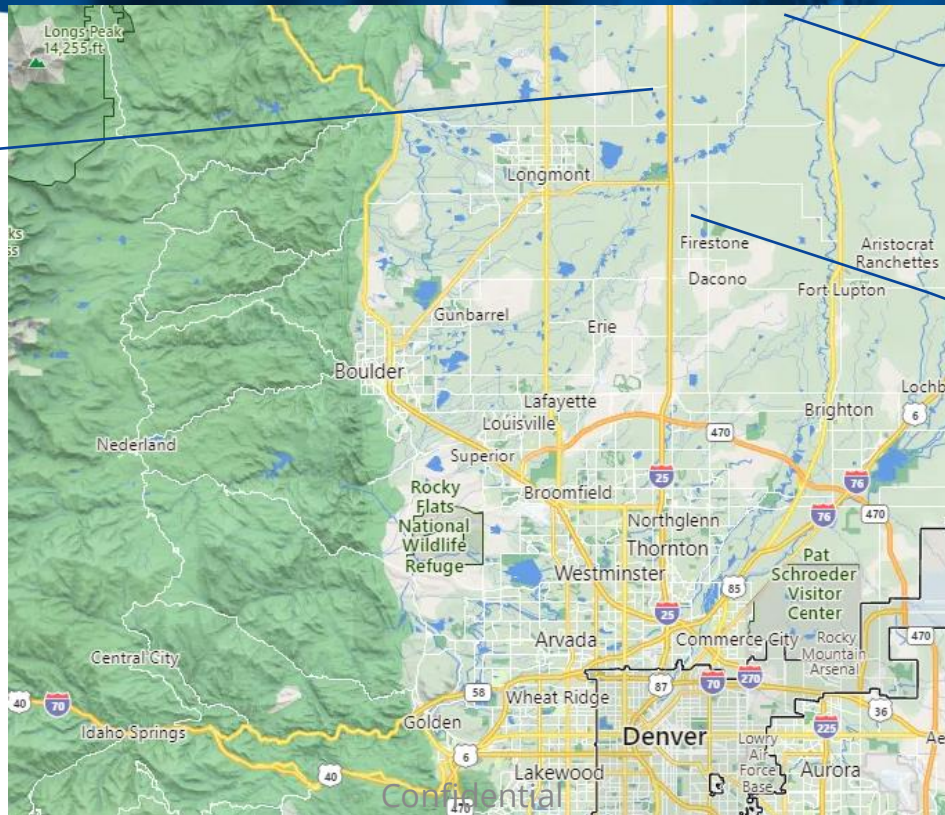


Milliken

107 Acres Expansion
Site for Future
Production

Longmont (HQ)

R&D, Manufacturing,
Corporate Office



Facilities in Northern Colorado



Production Capabilities

- Reactors of various sizes and materials of construction (lab to commercial scale)
- Variety of Filtration Technology & Centrifuges
- Commercial scale distillation
- Handling of air/moisture sensitive materials at commercial scale
 - Liquid and solid packaging
 - Pyrophoric materials



Longmont Multipurpose Expansion



R&D / Analytical Laboratories

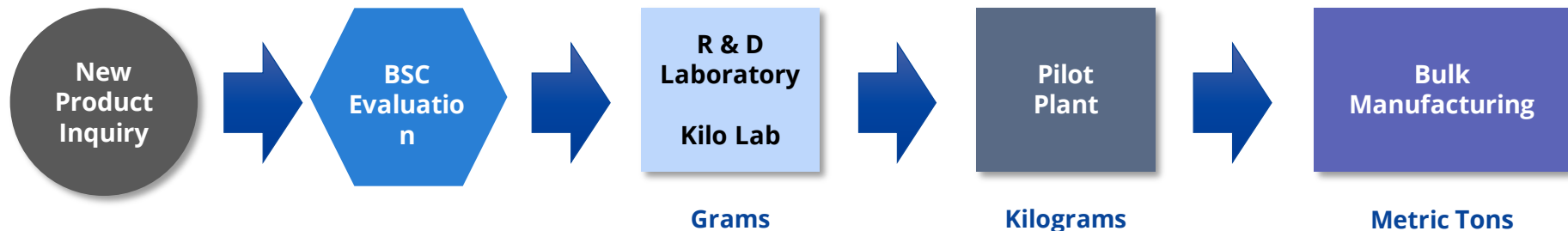


Extensive Analytical Instrumentation & Process Safety Equipment

- NMR
- GC / GC-MS
- HPLC
- FTIR
- UV/VIS
- Karl Fischer
- ICP-OES / ICP-MS
- Particle Size Analyzer
- Headspace Analyzer
- Reaction Calorimeter
- DSC & TGA

Specialty Custom Manufacturing – New Products

New Product Scale-Up Work Process



- Typical Work Process: Close collaboration with customers on development
- Scale Up from R&D to Commercial Quantities
- Air & Moisture-Sensitive Compounds
- Pyrophoric Materials
- Multi-Step Syntheses

Custom Packaging and Shipping



- Solids Packaging, Drums, Cylinders, ISO Tankers
- Global Shipments
- Customer Specific Packaging and Shipping

Environmental Health & Safety



- ChemStewards Certified (SOCMA) Tier 3
- Member of the Colorado Green Business Network – formerly CDPHE Environmental Leader Gold Award (since 2012)
- Sustainability Platforms
 - Ecovadis
 - CDP

Culture



ISO 9001:2015

CERTIFIED



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Sales@Bouldersci.com

(970) 535-4494

www.bouldersci.com

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