

FLOW TECHNOLOGY FOR GRIGNARDS

BRING CHEMIUM'S MgFlow® TECHNOLOGY IN HOUSE

Mg^{Flow®}, A GAME CHANGING TECHNOLOGY

Mg^{Flow®} is a novel continuous flow process designed especially for the safe synthesis of Grignard reagents in an innovative reactor.

Thanks to exceptional control of the temperature as well as the mixing of the reagents, the reaction time is substantially reduced to minutes, generating a constant flow of product, also possible at your production facility.

At CHEMIUM, we are convinced that safety is not an option. Thanks to the limited reactive volume, not exceeding litres, the typical process **safety concerns** of Grignard batch production **are eliminated**.

The on-site compact skid based production is providing customer with an ideal alternative to complex logistics and handling of portable tanks.









PROCESS SAFETY

Less work-in-process materials
Easy and fast initiation step
Optimum thermal and mass transfer
Safety by design
Ability to stop reaction in < 60s



QUALITY

Real-time inline quality monitoring Consistent quality by design No batch variations



COST EFFICIENCY

Low investment cost Low operating cost Very low footprint



PROCESS EFFICIENCY

High flexibility - most Grignard reagents available

Fully automated process

High operability

Continuous operations

Easy transition



NEW DEVELOPMENT

Shorter development time Easy screening of solvents Seamless scale-up Small consistent quantities

