Phosgene Chemistry Capabilities
Phosgene Chemistry: a Sigma-Aldrich Key Differentiator

Production facilities:
Located in Sheboygan WI, Production II (Pro II)
Research and development (up to 5L, 500g)
Process development lab (up to 50 gal, 25 Kg)
Production plant (200 gal and 500 gal vessels, up to ton-scale)
Enables smooth transition from discovery to scale-up and production

Technology:
Safe handling of hazardous phosgene at all developmental stages
Over 10 years chemical and technical experience with phosgene chemistry

Sigma-Aldrich has experience and knowledge to deliver solutions to your chemistry problems: on-time, on-quantity, on quality and with impeccable safety record
Phosgene Chemistry: Overview

Sigma-Aldrich provides:

350+ products regularly supplied to customers

Custom synthesis from grams to kilograms in development and scale-up to tons

Product purification and QC according to your needs, including high-purity distillation

Sigma-Aldrich can deliver custom quantity of products with known chemistry within 2-4 months. New chemistry development lead time will vary from 4-8 months, depending on complexity of the process.
Phosgene Chemistry: Safety

Sigma-Aldrich has strict safety measures in place to ensure incident-free handling of chemical intermediates and waste during synthesis of products using the phosgene chemistry:

- Monitor waste byproducts down to ppb levels of phosgene
- Monitors installed in all laboratories, production areas as well as exhaust out of the building
- Strict safety SOPs to protect personnel and environment
- Mechanical, chemical and temperature controls for effluent gases

“0” OSHA reportable accidents involving phosgene
“0” any OSHA reportable accidents in Pro II within the last 2 years