



**CHEMICAL.
PROCESS.
ENGINEERING.**

**GAS-LIQUID
REACTIONS**

**PHOSGENE
PRODUCTION**

**FLUORINE
CHEMISTRY**

**CHEMICAL
RECYCLING**



DID YOU KNOW...

that Dynamic Phosgene Generation is the safest way to produce phosgene?

BUSS ChemTech is the leader in dynamic phosgene production technology. Our systems avoid the liquefaction or storage of phosgene and incorporate features that safeguard the health and well-being of personnel and the environment.

Our phosgene generators use CO and Cl₂ as the starting materials and can operate in a range of 10 to 100% of their nameplate capacity. Other important attributes of our phosgene generators include an “idle” function that allows them to be restarted in minutes, as well as the possibility to include safety absorption equipment.

Our phosgene generators are designed as skid mounted units and can be combined with our Advanced Phosgenation Reactors. The BUSS ChemTech project team has successfully worked through all the levels of

Functional Safety documentation and procedures required for a Phosgene Generator, obtaining the *Functional Safety Assessment Certificate for Design and Engineering of the Safety Instrumented Systems of the Phosgene Generator and Safety Absorption* in a recently commissioned unit.

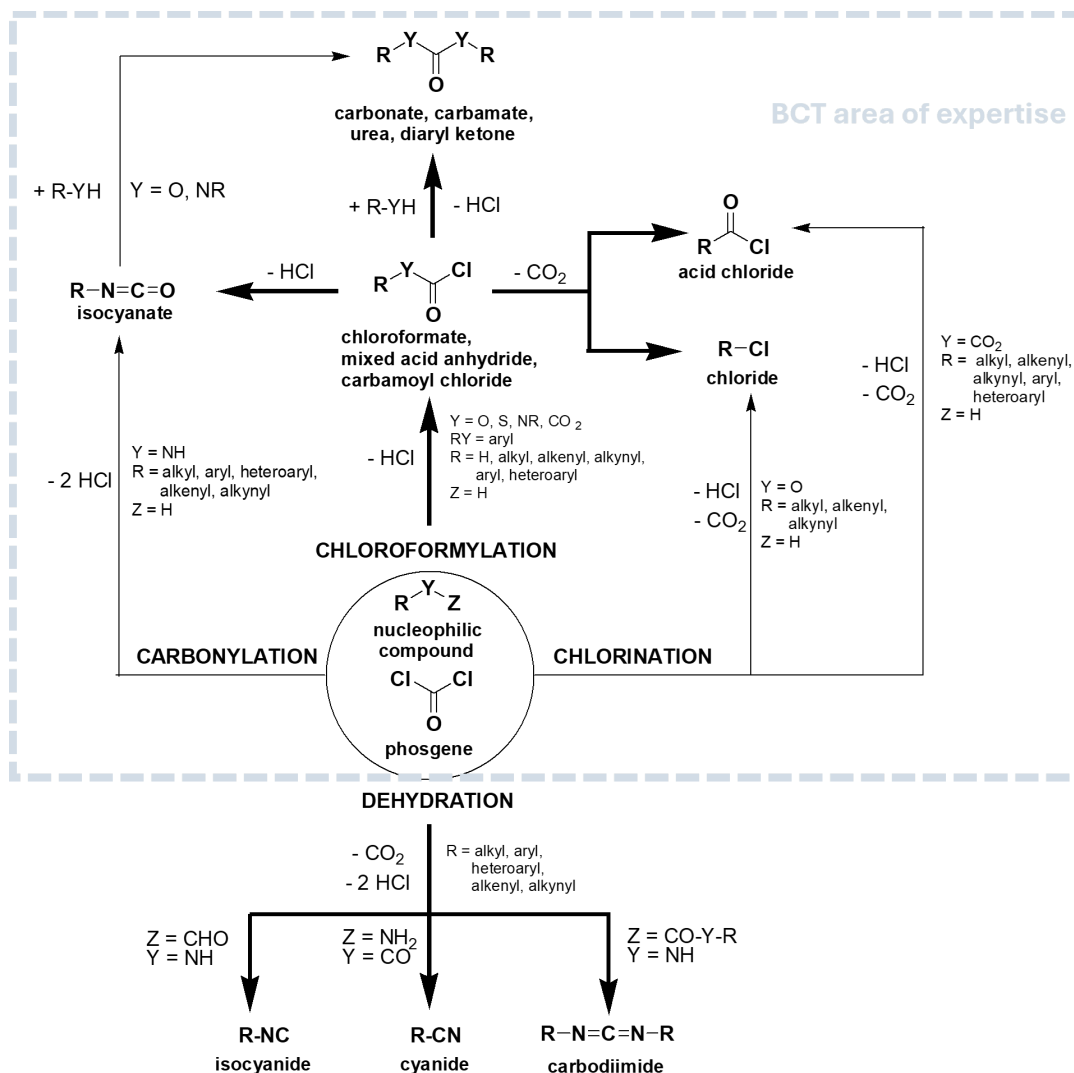
Reach out to learn more about our technology offering:

Gianluca Premoli / gianluca.premoli@buss-ct.com / +41 (0)61 825 6373



Phosgenation

Phosgene is a very versatile raw material commonly used in the production of many organic compounds.



Livius Cotarca, & Eckert, H. (2004). Phosgenations. John Wiley & Sons. Copyright © 2003 Wiley-VCH Verlag GmbH & Co. KGaA

The final products of a phosgenation reaction can be used in the manufacturing of adhesives, pesticides, foams, coatings, antibiotics, sugar substitutes, among others.

Some specific examples include:

RAW MATERIAL	PRODUCT	USAGE
2-Ethylhexanoic Acid	2-Ethylhexanoyl Chloride	Reactive Intermediate
Lauric Acid	Lauroyl Chloride	Reactive Intermediate
Stearic Acid	Stearoyl Chloride	Reactive Intermediate
Benzyl Alcohol	Benzyl Chloroformate	Intermediate for Synthesis of Carbonates and Carbamates
Propargyl Alcohol	Propargyl Chloroformate	Intermediate for Agrochemical
2-Propanol	2-Propyl Chloroformate	Intermediate for Synthesis of Carbonates and Carbamates
Diethylene Glycol	Diethylene Glycol Bis-Chloroformate	Intermediate for Synthesis of Carbonates and Carbamates
Sucrose-6-Acetate	Sucralose-6-Acetate	Sweetener
Toluene Diamine (TDA)	m-Toluene Diisocyanate (TDI)	Intermediate for Polyurethane
N-Butylamine	n-Butyl Isocyanate	Intermediate for Insecticides and/or fungicides



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[ASC Expo 2025 / April 15 / Jacksonville, FL, USA](#)

[AOCS Meeting & Expo / April 27-30 / Portland, OR, USA](#)

[15th ICIS World Surfactants Conference & Expo / May 7-8 / Jersey City, NJ, USA](#)

[RACE: Recycling and Compounding Expo / May 14-15 / Mumbai, India](#)

[CPHI North America / May 20-22 / Philadelphia, PA, USA](#)

[Chemspec Europe / June 4-5 / Cologne, Germany](#)

[AMI Chemical Recycling Europe / June 25-26 / Brussels, Belgium](#)

[6th International Conference on Polycarboxylate Superplasticizers \(PCE 2025\) / July 23-25 / Bangkok, Thailand](#)

[Specialty & Agro Chemicals America / July 29-31 / Savannah, GA, USA](#)

BUSS ChemTech AG
Hohenrainstrasse 12A
CH-4133 Pratteln
Switzerland

Tel: +41 61 825 64 62
Fax: +41 61 825 67 37



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