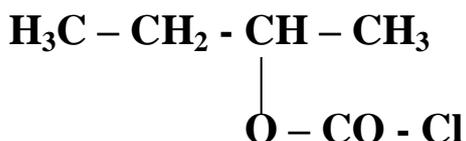


DATA SHEET Nr 2600 F

**sec– BUTYL CHLOROFORMATE**  
**SBCF**



Molecular formula:	C <sub>5</sub> H <sub>9</sub> ClO <sub>2</sub>
Molecular weight:	136.5
CAS number:	17462-58-7
EC number:	241-475-6

**SYNONYM**

Carbonochloridic acid, sec-butyl ester.

**APPEARANCE**

Clear liquid with pungent odor.

**PHYSICAL PROPERTIES**

Density (20 °C): 1.05 g/cm<sup>3</sup>

Boiling point: starts to decompose at 50 °C.

Solubility:

Soluble in usual organic solvents (acetone, toluene, chloroform, THF).

**CHEMICAL PROPERTIES**

- Reacts by hydrolysis yielding hydrochloric acid, carbon dioxide and sec-butanol.
- Reacts with alcohols yielding carbonates.
- Reacts with amines yielding carbamates.

**USES**

- Organic synthesis intermediate.

## sec-BUTYL CHLOROFORMATE

### SBCF

#### SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 30 APHA	Colorimetry	C – 210
Purity	≥ 99.0 %	Gas chromatography	GC – 248
Phosgene	≤ 0.1 %	Iodometry	I – 230
Hydrogen chloride	≤ 0.1 %	Acidimetry	A – 220
Sec-butanol	≤ 0.5 %	Gas chromatography	GC – 248
Iron	≤ 1 ppm	Atomic absorption spectrometry	AAS – 810

#### PACKAGING

Polyethylene lined metal drum containing 200 kg.

#### HANDLING PRECAUTIONS

- Physicochemical hazard:  
Flash point (closed cup): 38 °C
- Health hazards:  
LD 50 (oral, rat): 1000 - 1780 mg/kg
- Recommended:  
Avoid contact with metallic compounds which catalyze its decomposition.  
When handling this product wear gloves, goggles, mask and protective clothes.  
If eyes or skin are contaminated wash immediately with clean water for at least 15 minutes. In case of inhalation of concentrated vapors take person to fresh air. In both cases consult a physician.
- Neutralization:  
Neutralize by reaction with an alkaline solution.

#### STORAGE

Keep in its original, closed and labelled container.  
The place of storage has to be properly ventilated and cleanable.

**Store in dry place, storage temperature must be:  
< 0°C**

In contact with metallic compounds it decomposes yielding hydrogen chloride and carbon dioxide and the inner pressure of the drum increases, therefore it has to be opened with care.

In case of prolonged storage it is recommended to check again the product before use by measuring typical parameters of its quality such as color, hydrogen chloride and sec-butanol levels.

#### TRANSPORTATION

Refrigerated transport.

Refer to MSDS.

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August 2018



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