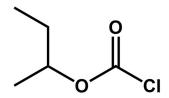


# DATA SHEET Nr 2600 F SEC-BUTYL CHLOROFORMATE SBCF



### **SYNONYMS**

Carbonochloridic acid, 1-methylpropyl ester Sec-butyl carbonochloridate But-2-yl chloroformate

### **APPEARANCE**

Clear liquid with pungent odor.

# PHYSICAL PROPERTIES

Density (20 °C):  $1.05 \text{ g/cm}^3$ 

Boiling point: 24-25 °C (13 Torr) Decomp. Onset: 50 °C

Solubility:

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

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

### **CHEMICAL PROPERTIES**

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

# **USES**

- Used as a component in peroxydicarbonate polymerization initiators
- Used as a building block in a range of pharmacological syntheses wherein the secbutyl structural motif is sought.



# 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

Corrosive; irritating to skin, mucous membranes and eyes

Recommended:

Avoid contact with metals that catalyze decomposition.

Approved safety eyewear, chemically resistant gloves and laboratory-appropriate chemical resistant clothing are recommended when handling.

In case of contact with eyes, flush for a minimum of 15 minutes with fresh water and contact a physician.

In case of acute inhalation, remove the contaminated individual to fresh air and seek medical assistance.

Neutralization:
 Neutralize by reaction with cold alkaline solutions.

# **STORAGE**

Store in its original container, in a covered, dry, cool and well-ventilated area, protected from exposure to direct sunlight. **Storage Temp:** < 0 °C.

In the case of prolonged storage, re-analyze for the presence of HCl and sec-butanol prior to use

# TRANSPORTATION

Refrigerated transport Refer to MSDS

Nr 2600 F August 2018



