DATA SHEET Nr 2200 D

1,6-HEXANEDIOL BISCHLOROFORMATE
1,6HDBCF

Cl-CO-O-(CH₂)₆-O-CO-Cl

Molecular formula: C₈H₁₂Cl₂O₄
Molecular weight: 243.2
CAS number: 2916-20-3
EC number: 220-840-3

SYNONYM
Hexamethylene bischloroformate

APPEARANCE
Clear liquid with pungent odor.

PHYSICAL PROPERTIES
Density (20 °C): 1.28 g/cm³
Boiling point: 278 °C/101 kPa
Solubility:
Soluble in usual organic solvents (acetone, toluene, chloroform, THF).

CHEMICAL PROPERTIES
- Reacts with alcohols yielding carbonates.
- Reacts with amines yielding carbamates.
- Reacts by hydrolysis yielding hydrochloric acid and 1,6-hexanediol.

USES
- Organic synthesis intermediate.
SPECIFICATION

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<th>Parameter</th>
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<th>Method</th>
<th>Operating procedure</th>
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<td>Appearance</td>
<td>Clear liquid</td>
<td>Visual</td>
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<tr>
<td>Color</td>
<td>≤ 30 APHA</td>
<td>Colorimetry</td>
<td>C – 210</td>
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<td>Purity</td>
<td>≥ 99.0 %</td>
<td>Gas chromatography</td>
<td>GC – 018</td>
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<td>Phosgene</td>
<td>≤ 0.01 %</td>
<td>Iodometry</td>
<td>I – 230</td>
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PACKAGING
Polyethylene lined metal drum containing 225 kg.

HANDLING PRECAUTIONS
- Physicochemical hazard:
  Flashpoint (closed cup): 110°C
- Health hazard:
  LD 50 (oral, rat): 5000 mg/kg
  Irritating to the eyes, skin and mucous membranes.
- Recommended:
  Avoid contact with metallic compounds which catalyze its decomposition. When handling this product wear gloves, goggles, mask and protective clothes. If eyes 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
Product is stable if it is stored in its original closed drum, protected from direct sunshine, in a covered, dry, cool and well-ventilated warehouse.

However, in case of prolonged storage it is recommended to check again the product before use by measuring typical quality parameters.

TRANSPORTATION
Refer to MSDS.