

(2) **Cyanogen chloride, CNCl**
CAS No. 506-77-4
HS No. 28.12.10.90
TDG No. 1589
NIOSH/RTECS No. GT 2275000
Merck 2701

Synonyms: Chlorcyan, chlorine cyanide, chlorocyanide, mp: -65°,

Physical Properties: MW: 61.48, mp: -6.5°C, bp: 13.1°C, d 1.222 at 0°C, colourless as liquid and gas with a sharp, pungent-odour, soluble in water, alcohol and ether.

Synthesis: It is prepared by the reaction of chlorine with hydrogen cyanide on by the electrolysis of aqueous hydrogen cyanide in the presence of ammonium chloride.

Toxicology: Poisonous by ingestion, toxic by inhalation. It is a primary irritant and a very severe eye irritant, LD₅₀ 20 mg kg (sc rabbit. Decomposition leads to toxic and corrosive fumes of chloride, cyanide and nitrogen oxides. It is reported on the EPA TSCA inventory.

Uses: Used in chemical synthesis.

Suppliers: There is only one listed supplier and that is in the United Kingdom. The corresponding cyanogen bromide is available in Brazil (1) and the USA (2).