



## Product Specification

### N-BUTYL CHLORIDE FOR SYNTHESIS

PRODUCT CODE	033155
SYNONYMS	(1-Chloro Butane)
C.I. NO.	--
CASR NO.	(109-69-3)
ATOMIC OR MOLECULAR FORMULA	C <sub>4</sub> H <sub>9</sub> Cl
ATOMIC OR MOLECULAR WEIGHT	92.57
PROPERTIES	--



PARAMETER	LIMIT
Description	A clear and colourless liquid.
Solubility	5% in ethanol is clear and colourless solution.
Minimum assay (By GC)	98.0%
Wt per ml (at 20 <sup>o</sup> C)	0.885 – 0.887 g
Boiling range (77-78 <sup>o</sup> C)	Min. 95%
Refractive index (n) <sup>20</sup> <sub>D</sub>	About 1.402

**Note(s) : Assay (if applicable) method mentioned.**

**WARNING**

**HAZARD STATEMENTS :** May cause respiratory irritation. Flammable liquid and vapour. Harmful if swallowed. Causes mild skin irritation. Causes eye irritation.

**PRECAUTIONARY STATEMENTS :**

**Prevention :** Ground/bond container and receiving equipment. Use only nonsparking tools. Take precautionary Measures against static discharge. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flame - No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Wear protective gloves and eye/face protection.

**Response :** If eye irritation persists, get medical advice/attention. If skin irritation occurs, seek medical advice/attention.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. **IF IN EYES:** Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. **Specific treatment:** refer to Label or MSDS. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower. In case of fire, use foam for extinction.

**Disposal :** The chemical should be burnt in a chemical incinerator equipped with burner and scrubber. If the volumes are larger than 500ml and no incinerator and site of evaporation is not available then transfer the waste chemical to waste solvent drum for collection by specialist disposal mpany.

IMDG Code :3/II  
UN No. : 1127  
IATA : 3

**Hazard Pictogram(s) :**

Skin irritation

Flammable