

## [POTASIAM ALCOHOLATES]

### [Potassium n- Butylate (KNB) in n- Butanol (20%)]

- a) 20 wt % Solution in n-butanol.
- b) Density at 25°C - Approx. 0.86 gm/ml.

### 1] [OTHER NAMES]

- a) Potassium n- butoxide in n- butanol (20%)
- b) KNB in n- butanol (20 %)

### 2] [CAS NO]

- a) 3999-70-0 for KNB
- b) 71-36-3 for n-butanol.

### 3] [FORMULA WEIGHT]

- a) 112.21 gm/mole.

### 4] [TECHNICAL SPECIFICATION]

- a) Appearance: Dark Yellow Liquid.
- b) Total alkalinity (%): 20 - 22.
- c) Hydroxide Content (%): 1 max.
- d) KNB content (%): 19 - 21.

### 5] [SOLUBILITY]

- a) KNB is soluble in n- butanol and some ethers.

### 6] [STABILITY]

- a) Atmospheric moisture and carbon dioxide reacts with KNB to produce potassium hydroxide and potassium carbonate. n-Butanol is liberated from these reactions. This solution becomes Cloudy and develops colour. KNB solution should be stored in cool place away from heat, sparks and flame.

### 7] [PACKAGING]

- a) Sample packing from 100 gms. to 500 gms in glass bottle.
- b) 170 kgs in 210 lit. Steel drum.
- c) Any other packing as per customer request.

### 8] [SAMPLING INSTRUCTIONS]

- a) The product is packed under dry nitrogen with positive pressure of nitrogen inside the drum.
- b) The quality of the product deteriorates very fast if exposed to atmosphere even for a brief period.
- c) While sampling, please ensure that the sample is taken out under dry nitrogen in a preweighed stoppered bottle and analysis is done immediately.
- d) After sampling, close the container securely after putting positive nitrogen pressure in the drum. This is very important so that the product does not deteriorate on storage.

### 9] [SHIPPING INSTRUCTIONS]

- a) UN-2920, PG 1
- b) Corrosive flammable liquid.

## **10] [PRODUCT PROPERTIES]**

- a] Very high purity.
- b] Strong base.
- c] Selective and specific in many organic reactions.
- d] Low hydroxide content.
- e] Custom packaging available.
- f] Any quantities in bulk.

## **11] [PRODUCT BENEFITS]**

- a] Used for formation of ethers.
- b] Moderately strong base for deprotonation and base catalysed reactions.