

## TECHNICAL DATA SHEET

### CHOLINE CHLORIDE 60% - FEED GRADE

<b>Product Name</b>	<b>Choline Chloride 60% - FEED GRADE</b>	
<b>CAS No</b>	67-48-1	
<b>Chemical Name</b>	Choline Chloride	
<b>Chemical Structure</b>		
<b>Molecular Weight</b>	139.62	
<b>Description</b>	<p>Choline chloride is a member of the B-complex group of water soluble vitamins. It is an essential factor in the normal health development of animals and necessary for maximum growth. As a part of the molecular structure of phospholipids, it is concerned with the mobilization of fat in the body. In the absence of choline there is an abnormal accumulation of fat in the liver. In conjunction with certain other dietary factors, choline will prevent the occurrence of perosis (slipped tendon) in chicks and turkeys. It is also involved in the synthesis of phospholipids, sphingomyelins and glycine. Choline is essential for the formation of acetylcholine, a compound which makes possible the transmission of nerve impulses.</p>	
<b>Appearance</b>	White to off white powder	
<b>Benefits</b>	<ul style="list-style-type: none"> <li>▪ Prevent fatty liver syndrome.</li> <li>▪ Prevent bone abnormality or perosis in chick.</li> <li>▪ Improve body immunity system to prevent disease.</li> <li>▪ Improve Carcass quality.</li> <li>▪ Improve egg production.</li> <li>▪ Improve FCR.</li> </ul>	
<b>Application</b>	<ul style="list-style-type: none"> <li>• Prevent the accumulation of fat and tissue lesions in the liver and kidney</li> <li>• Strengthen animal's health and disease resistance ability .</li> <li>• improves animal's growth rate and laying rate and piglet's Survival rate</li> <li>• promote Fish growth and breeding , improves survival rate</li> <li>• Ensure animal's normal function of nervous system</li> </ul>	
<b>Properties</b>	Assay	Min 60%
	Loss on drying	Min 0.5%
	Heavy metals	Max 20(ppm)
	TMA (ppm)	Max 300
<b>Handling and storage</b>	Store in a cool, dry, well ventilated area. Keep away from incompatible materials.	
<b>Shelf Life</b>	2 years	
<b>Packing</b>	25kg bags.	
<b>Dosage &amp; Administration</b>	Poultry : 500g to 1500 g/ton of feed or as prescribed by veterinary	