

## Mineral Fact Sheet

<b>Copper sulphate pentahydrate</b>	
<b>Formula:</b>	CuSO <sub>4</sub> x 5 H <sub>2</sub> O
<b>CAS No.:</b>	7758-99-8
<b>EC No.:</b>	231-847-6
<b>Feed Additive Register:</b>	E 4
<b>Manufacturing Process:</b>	
Pure copper is dissolved in sulphuric acid and crystallised.	
<b>Characteristics:</b>	
CuSO <sub>4</sub> x 5 H <sub>2</sub> O	98 % min.
Copper	25 % min.
Solubility in water	266 g/l at 20°C
pH (10% solution)	3,2 – 4
Appearance	deep blue to light blue crystals / microcrystals
Particle size	< 1 mm (typical)
Highly hygroscopic, for free flowing properties anti-caking may be required	
<b>Handling, storage, toxicity:</b>	
Strong irritant to nose and throat, Cause severe eye and skin irritation, do not breath dust	
Store in covered, dry area, keep out of the reach of children	
Toxicity: LD50 <sub>Rats</sub> 750 - 1000 mg/kg (oral), > 1000 mg/ kg (dermal)	
<b>Specific information:</b>	
Fully soluble (except anticaking additive),excellent bio-availability	
Feed operators using Cu compounds need to be approved according Reg. 183/2005	
Conditions for use are laid down in Reg. 1334/2003	