

TECHNICAL DATA SHEET OF

Copper hydroxide 77% WP

Chemistry identity	
Product name	Copper hydroxide 77% WP
IUPAC name	copper(II) hydroxide; cupric hydroxide
CAS No	20427-59-2
Formula structure	<chem>Cu(OH)2</chem>
Physical and chemical properties	
Appearance	Blue powder
Content	77% min. (w/w)
pH	NA
Density	NA
Solubility in water	Wettable in water
Mammalian toxicity	
Acute oral	LD ₅₀ for rat 600-1600 mg/kg (Calculated)
Acute dermal	LD ₅₀ for rats >2000 mg/kg
Acute inhalation	LC ₅₀ (4 h) for rats >0.7 mg/L (Calculated)
Environment fate	<p>Animals Copper is an essential element and is under homeostatic control in mammals. Plants Copper is an essential element and is under homeostatic control in plants. Soil/Environment Copper is a chemical element and therefore cannot be degraded or transformed into related metabolites. In soil it is mainly strongly bound, to a wide range of soil substances, therefore limiting the amount of free copper ion in soil solution and so its bioavailability. The amount of free copper ion is primarily controlled by pH and the amount of dissolved organic carbon in the soil. In acid soils, copper ions will be at greater concentration than at neutral or alkaline pH. Copper is not expected to leach to the saturated zone. In water hydrolysis or photolysis processes will have no action on copper. It is rapidly bound to mineral particles, precipitated as insoluble inorganic salts or bound to organic matter. In air copper will not be present, as copper is not volatile at environmentally relevant temperatures.</p>
Handling and storage	<p>Storage: Do not store this material near food, feed or drinking water. Store in a well ventilated area. Store in a dry area. Do not allow this product to become wet or overheated in storage; decomposition, impaired activity or fire may result.</p> <p>Handling: Do not handle material near food, feed or drinking water. Avoid high concentrations of dust in air and accumulation of dust on equipment. An airborne dust of this material can create a dust explosion. When handling and processing this material local exhaust ventilation may be required to control dust and reduce exposure to vapors.</p>
Package	500g, 1kg, 25kg drum or customized package