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## MATERIAL SAFETY DATA SHEET

# COPPER SULPHATE *Pentahydrate*

### IDENTIFICATION

Product Name:	Copper Sulphate Pentahydrate
Other Names:	Blue Stone, Curpic sulphate, Blue Vitriol.
UN Number:	Not applicable
Dangerous Goods Class & Subsidiary Risk:	Not Applicable
Hazchem Code:	Nil
Poisons Schedule Number:	6
Use:	Fertiliser (soil nutrient) Water Treatment, Flotation Agent.
<b>Physical Description / Properties</b>	
Appearance:	Blue crystalline, white when dehydrated, odourless.
Boiling point:	150 C
Vapour Pressure:	Not Applicable
Specific Gravity:	2.28
Flashpoint:	Non flammable
Flammability limits:	Not flammable
Solubility in Water:	31.60g/L.
<b>Other Properties:</b>	
Chemical Name:	CAS number:
Copper Sulphate	7758-99-8
Based on the available information, not classified as hazardous according to worksafe Australia.	

### HEALTH HAZARD INFORMATION

<b>Health Effects:</b>	Not considered to be a health hazard under normal circumstances.
Swallowed:	Ingesting may cause diarrhoea, nausea, vomiting and cramps. Large doses may result in kidney, liver and blood damage.
Eye:	Can cause irritation to eyes. Prolonged contact – corneal burns and possible permanent damage.
Skin:	Mildly irritating to skin. If exposed to frequent and prolonged contact it can cause dermatitis or skin irritations. No effect should occur if the product is promptly washed off.
Inhaled:	If the product is present in high concentrations of airborne dust, prolonged contact may cause irritation to the nose and

	throat.
<b>First Aid</b>	
Swallowed:	SEEK URGENT MEDICAL ATTENTION. If swallowed induce vomiting, preferably using Ipecac Syrup.
Eye:	Hold eye open, flood with copious amounts of water for 15 minutes and see a doctor. It is recommended that permanent or mobile eye wash stations be provided when handling this product.
Skin:	Remove contaminated clothing and wash skin thoroughly with soap and water. Launder contaminated clothing before re-use.
Inhaled:	Recovery is rapid after removal from exposure. If symptoms are experienced, remove source of contamination or remove victim to fresh air.
First Aid Facilities:	It is important to have eye irrigation stations in areas where contact with Copper Sulphate is a hazard.
<b>Advice to Doctor:</b>	Consult poisons information centre.

### PRECAUTIONS FOR USE

Exposure Standards:	No exposure limit has been assigned to this product. Where no specific exposure standard has been assigned, the recommended exposure level for dust in general shall be 10mg/m <sup>3</sup> measured as inspirable dust. The exposure limit is expressed as a time weighted average (TWA) concentration over an eight hour working shift, for a 5 day working week, and is the limit recommended by the supplier of this material.
Engineering Controls:	No special ventilation is required.
Personal Protection:	When using do not eat, drink or smoke. Wash thoroughly before smoking, eating or using toilet facilities. Wear overalls, boots, gloves, dust masks and safety goggles. Avoid inhaling dust. Where high concentrations of airborne dust is present, respirators conforming to AS1716 should be worn.
Flammability:	Non Flammable.

### SAFE HANDLING INFORMATION

Storage and Transport:	Not classified as dangerous goods. Store in a cool place. Store apart from combustible materials, herbicides and fungicides.
Spills and Leaks:	Small spills can be swept for re-use, or can be sluiced away with large quantities of water to drains. Large spills, (>100kg), should be swept up and shovelled into containers for reclamation. Add any broken packages to the container. Sluice down the spill area with large quantities of water. Do not contaminate streams, rivers or water courses. For advice on disposal, telephone the number given on the data sheet.
Fire/Explosion Hazard:	Non flammable. For fires involving this material:

	Decomposition may give rise to toxic and noxious fumes. Spray water on decomposing mass and fight fire upwind if outdoors. In smoke or fumes wear self-contained breathing apparatus. Do not use more water than is necessary and contain run off. Advise Fire Brigade of nature of hazard.
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OTHER INFORMATION:

Stable under ordinary conditions of use and storage.

***Disclaimer. The information, data and recommendations in this material safety data sheet relate only to the specific material designed herein and do not relate to use in combination any other or in any process. The information, data and recommendations set forth herein are believed by Paton Fertilizers Pty.Ltd to be accurate. Paton Fertilizers Pty.Ltd makes no warranties, either expressed or implied, with respect thereto and assumes no liability in connection with any use of such information, data and recommendations.***