

Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements		U.S Department of Labor Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072	
<b>Identity (as Used on Label and List)</b> <b>ACIDIFIED COPPER SULFATE</b>		The information contained herein is based on data considered accurate. However, no warranty of any nature is either expressed or implied with respect to the product or the data contained herein.	
<b>Section I</b>			
Manufacturer's Name Animal Science Products, Inc.		Emergency Telephone Number 800-424-9300 Chemtrec	
Address (Number, Street) PO Box 631408		Telephone Number for Information 800-657-2324 Animal Science Products, Inc.	
(City) Nacogdoches		Date Prepared 11/02/2011	
(State) TX		Signature of Preparer (Optional)	
<b>Section II - Hazardous Ingredients/Identity Information</b>			
COPPER SULFATE PENTAHYDRATE CAS 7758-99-8 CITRIC ACID ANHYDROUS CAS 77-92-9			
<b>Section III - Physical/Chemical Characteristics</b>			
Boiling Point:	NA	Specific Gravity (H2O=1):	NA
Vapor Pressure (mm Hg.):	NA	Melting Point	NA
Vapor Density (AIR=1):	NA	Evaporating Rate (Butyl Acetate=1)	NA
Solubility in Water: Appreciable			
Appearance and Odor: Blue powder			
<b>Section IV - Fire and Explosion Hazard Data</b>			
Flash Point (Method Used): NA not flammable	Flammable Limits: NA	LEL: NA	UEL: NA
Extinguishing Media: Does not support combustion, use media appropriate for surrounding environment.			
Special Fire Fighting Procedures: Heating over 300 C emits toxic sulfur fumes. Extinguishing with water will dissolve copper sulfate and runoff should be kept out of watershed.			
Unusual Fire and Explosion Hazard: None			

<b>Section V – Reactivity Data</b>					
Stability:	Unstable		Conditions to Avoid: Incompatible with bases, hypochlorites, and ammonium compounds.		
	Stable	XX			
Compatibility (Materials to Avoid):					
Hazardous Decomposition or Byproducts: Toxic sulfur fumes on heating over 300 C.					
Hazardous Polymerization	May Occur		Conditions to Avoid:		
	Will Not Occur	XX			
<b>Section VI – Health Hazard Data</b>					
Route(s) of Entry:		Inhalation? YES	Skin? YES	Eyes? YES	Ingestion? YES
Effects of Overexposure:					
Swallowing- Orally toxic, LD50 of copper sulfate in male rats 472 mg/kg					
Skin- Non toxic, skin irritation is possible, especially when wet					
Eyes- Irritating and corrosive. Corneal burns are possible if not treated. Blindness may result.					
Inhalation- Irritating to the upper respiratory tract					
Carcinogenicity- None					
First Aid Procedures:					
If swallowed- give large amounts of milk or water. Induce vomiting. Seek medical attention.					
If on skin- wash thoroughly with soap and water. Remove and wash contaminated clothing.					
If in eyes- immediately flush eyes with plenty of water for 15 minutes. Hold eyelids apart during irrigation. Seek medical attention.					
If inhaled- remove person to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult give oxygen. Seek medical attention.					
Preexisting Conditions that may be Aggravated by Exposure:					
Skin lacerations and irritation can become more irritated.					
<b>Section VII – Precautions for Safe Handling and Use</b>					
Steps to be taken in case material is released or spilled:					
Do not wash away powder. Recover dry if possible. If product is in a confined solution, react with soda ash to form insoluble copper carbonate that can be scooped up.					
Waste Disposal Method:					
Do not reuse container. Comply with federal, state and local regulations. Sweep up powder and dispose in an approved landfill.					
Safe Handling Procedures:					
Contact lenses should not be worn. Wear chemical safety goggles. Rubber gloves and rubber apron should be worn.					
Wear an approved respirator for dust and mist.					
Provide mechanical ventilation or local exhaust.					
<b>Section VIII – Control Measures</b>					
Respiratory Protection:					
NIOSH respirator prefix TC-21C or filters designated with R, P, or HE.					
Protective Gloves:			Eye Protection:		
Wear rubber gloves			Wear safety goggles, full face shield or full face respirator.		
Other Clothing or Equipment:					
Rubber apron should be worn					