

# MATERIAL SAFETY DATA SHEET

Section I – Product Information			
Product Name or Identity:	Campy Blood Free Selective Medium (CCDA)		
Manufacturer's Name:	Acumedia Manufacturers, Inc.	Emergency Phone No.:	410/780-5120
	9601 Pulaski Park Drive	Fax No.:	410/780-5470
	Baltimore, Maryland 21220	E-mail:	<a href="http://www.neogen.com">www.neogen.com</a>
Date Prepared or Revised: 12/20/00			

Section II – Hazardous Ingredients / Identity Information			
Hazardous Components (Specific Chemical Identity: Common Names)	OSHA PEL (Permissible Exposure Limits)	ACGIH TLV (Threshold Limit Value)	Toxicity Data LD <sub>50</sub>
Sodium Deoxycholate	N/A	N/A	N/A
Ferrous Sulfate, Iron (II) sulfate heptahydrate	N/A	N/A	ORL-MUS 1520 mg/kg
Sodium Pyruvate, Pyruvate acid sodium salt	N/A	N/A	

Section III – Physical Characteristics	
Boiling Point: N/A	Specific Gravity (H <sub>2</sub> O = 1): 1.898 (Ferrous Sulfate)
Vapor Pressure (mm Hg.): 14.6 mm (Ferrous Sulfate)	Melting Point: >300°C (Sodium Pyruvate),
Vapor Density (AIR = 1): N/A	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: Soluble	
Appearance and Odor: Light blue or light blue-green solid (Ferrous Sulfate), White powder (Sodium Pyruvate).	

Section IV – Fire and Explosion Hazard Data	
Flash Point ( <i>Method Used</i> ): Not applicable	Flammable Limits: LEL (Lower Explosive Limit) – N/A UEL (Upper Explosive Limit) – N/A
Extinguishing Media: Suitable extinguishing agents. CO <sub>2</sub> , extinguishing powder or water spray.	
Special Fire Fighting Procedures: Fight larger fires with water or alcohol resistant foam. Firefighters should wear protective equipment and self-contained breathing apparatus.	
Unusual Fire and Explosion Hazards: During heating or in case of fire, poisonous gases, carbon dioxide and carbon monoxide, are produced.	

Section V – Reactivity Data			
Stability	Unstable		Conditions to Avoid: Avoid mixing Ferrous Sulfate with sodium nitrate and arsenic (III) oxide, may result in spontaneous ignition. Product is air and moisture sensitive.
	Stable	X	
Incompatibility ( <i>Materials to Avoid</i> ): Incompatible with strong oxidizing agents, alkalis, carbonates, silver and gold salts, potassium iodide, lead acetate, sodium borate, potassium and sodium tartarate.			
Hazardous Decomposition or Byproducts: Carbon monoxide (CO) and Carbon dioxide (CO <sub>2</sub> ).			
Hazardous Polymerization	May Occur		Conditions to Avoid: Avoid heating above melting point. Addition of trace amounts of Ferrous Sulfate to Methyl isocynoacetate resulted in explosive decomposition at 25°C.
	Will Not Occur	X	

<b>Section VI – Health Hazard Data</b>			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (Acute and Chronic)	Harmful. Harmful by inhalation, ingestion and through skin absorption. Irritating to eyes, respiratory system and skin.		
Carcinogenicity:	NTP? No (National Toxicology Program)	IARC Monographs? No (International Agency for Research in Cancer)	OSHA Regulated? No
Signs and Symptoms of Exposure: Ingestion of 5 grams or less of Ferrous Sulfate can product symptoms including nausea, abdominal pain and vomiting. Death can occur. Irritant to skin and mucous membranes. Irritating effect to eye Eye contact may cause irritation with reddening and pain.			
Medical Conditions Generally Aggravated by Exposure: Repeated and prolonged exposure of Sodium Pyruvate may cause mucous membrane irritation, dermatitis and conjunctivitis. Exposure to Ferrous Sulfate can result in life threatening symptoms.			
Emergency / First Aid Procedures	Ingestion: If swallowed, seek medical attention immediately. Show physician product label.		
	Inhalation: In case of unconsciousness, place patient on side position for transportation. Supply fresh air or oxygen, seek medical attention.		
	Eye Contact: Rinse opened eye for at least 15 minutes under running water, occasionally lifting upper and lower lids until no evidence of chemical remains. Seek medical attention.		
	Skin Contact: Immediately wash with plenty of soap and water for at least 15 minutes.		

<b>Section VII – Precautions for Safe Handling and Use</b>
Accidental Release Measures: Evacuate area. Wear suitable protective clothing. Material should be dissolved in water, acid solution or oxidized to a water-soluble sate. Destroy any excess sulfide with sodium hypochlorite.
Waste Disposal Method: Dispose in accordance with all applicable federal, state and local environmental regulations.
Handling and Storing: Keep container tightly closed. Protect from moisture. Suitable for any general chemical storage area. Store away from oxidizing agents and acidic materials.
Other Precautions Avoid breathing vapors and dust. Ensure good ventilation / exhaustion at the workplace.

<b>Section VIII – Control Measures</b>		
Respiratory Protection (Specify Type): None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.		
Ventilation	Local Exhaust: 50 – 100 CFM	Special
	Mechanical (General): N/A	Other
Protective Gloves: Proper disposable gloves	Eye Protection: Safety goggles	
Other Protective Clothing or Equipment: Uniform, lab coat or disposable lab wear.		
Work / Hygienic Practices: Follow the usual precautionary measures for handling chemicals / powder. Keep away from food and beverages. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes, skin and clothing.		

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