



An Advanced Analytical Technologies Company

Material Safety Data Sheet

PK-080-0000, PK-084-0000, PK-088-0000, PK-092-0000, PK-096-0000, PK-100-0000, PK-104-0000, PK-108-0000, PK-112-0000

Section 1

CombiSep, Inc.	Emergency Telephone Number 515-294-1690
Address 2711 South Loop Drive, Suite 4200 Ames, IA 50010	Telephone Number for Information 515-294-1690
Date Prepared 10/07/2003	Signature of Preparer

Section 2 - Hazard Ingredients/Identity Information

CAS#	Substance Name	% by weight
none	pKa Buffer 50mM, pH range 8.0 – 11.2 Information regarding the specific chemical identity of this material is being withheld as a trade secret of the manufacturer.	100%

NFPA Rating (estimated)

Health: 2 ; Flammability: 0 ; Reactivity: 0

Section 3 - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H₂O = 1)	1
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water Completely miscible			
Appearance and Odor Clear, colorless.			

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Section 4 - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media Substance is non-combustible Use extinguishing media most appropriate for the surrounding fire.			
Special Fire Fighting Procedures N/A			
Unusual Fire and Explosion Hazards N/A			

Section 5 - Reactivity Data

Stability	Stable	Conditions to Avoid	N/A
Incompatibility (Materials to Avoid) : Incompatible with acetic anhydride and potassium.			
Hazardous Decomposition or Byproducts Irritating and toxic fumes and gases, oxides of boron			
Hazardous Polymerization	Will not occur	Conditions to Avoid	N/A

Section 6 - Health Hazard Data

Route(s) of Entry:	Inhalation? No	Skin? Yes	Ingestion? Yes
Health Hazards (Acute and Chronic) May cause eye and skin irritation			
Carcinogenicity:	NTP? No	IARC Monographs? None	OSHA Regulated? No
Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.			
Medical Conditions Generally Aggravated by Exposure N/A			
Emergency and First Aid Procedures			
Eyes: Flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower eyelids. Get medical aid.			
Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.			
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of water. Get medical aid.			
Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.			



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Section 7 - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Absorb with an inert material. Place in a container to hold for waste pickup. Wash spill site.
Waste Disposal Method Contact a licensed professional waste disposal service to dispose of this material.
Precautions to Be taken in Handling and Storing Wash thoroughly after handling.. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

Section 8 - Control Measures

Respiratory Protection (<i>Specify Type</i>) N/A		
Ventilation	Local Exhaust N/A	Special N/A
	Mechanical (General) N/A	Other N/A
Protective Gloves Wear compatible chemical resistant gloves	Eye Protection Wear safety glasses with side shields	
Other Protective Clothing or Equipment Laboratory coat		
Work/Hygienic Practices Avoid contact with skin and eyes. Wash thoroughly after handling		

Section 9 – Transport Information

	US DOT	IATA
Shipping Name:	None – this material is considered non-hazardous for transport	None – this material is considered non-hazardous for transport
Hazard Class:		
UN Number:		
Packing Group:		

Date Prepared: 10/07/03

Date Updated: 4/7/2006