

# MATERIAL SAFETY DATA SHEET

## Section 1. Identification of the Product

<b>Product Name or Identity:</b>	BCYE Agar Base		
<b>Manufacturer's Name:</b>	Acumedia Manufacturers, Inc.	<b>Emergency Phone No.:</b>	517/372-9200
	740 East Shiawassee	<b>Fax No.:</b>	517/372-0108
	Lansing, MI 48912	<b>e-mail:</b>	foodsafety@neogen.com
<b>Date Prepared or Revised:</b> October 2007			

## Section 2. Composition / Information on Ingredients

Hazardous Components Specific Chemical Identity:	CAS-No.	%	EG-Number	Hazard Symbol
ACES Buffer	7365-82-4	26.3%	N/A	Xi (Irritant)
Charcoal, Activated	7440-44-0	3.9%	231-153-3	Xi (Irritant)

## Section 3. Health Hazard Identification

<b>Route(s) of Entry:</b>	Inhalation? Yes	Skin? Yes	Ingestion? Yes
<b>Health Hazards:</b> (Acute and Chronic)	IRRITANT. Irritating to eyes, respiratory system, and skin.		
<b>Carcinogenicity:</b>	IARC Monographs? No	OSHA Regulated? No	
<b>Signs and Symptoms of Exposure:</b> May cause irritation if absorbed through the skin. Material may be irritating to mucous membranes and upper respiratory tract; sore throat or coughing may occur. Maybe harmful if ingested in large quantities causing nausea, vomiting, and diarrhea.			
<b>Medical Conditions Generally Aggravated by Exposure:</b> Contact with eye causes irritation, redness, and pain.			

## Section 4. First Aid Measures

<b>Emergency / First Aid Procedures:</b>	Ingestion: If swallowed, wash out mouth with water and seek medical attention. Never give anything by mouth to an unconscious person.
	Inhalation: If inhaled, remove to fresh air. If breathing is difficult or if not breathing give artificial respiration. Seek medical attention.
	Eye Contact: Rinse opened eye for at least 15 minutes with plenty of water. Ensure adequate flushing by separating the eyelids with fingers. Seek medical attention.
	Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation develops.

## Section 5. Fire and Explosion Hazard Data

<b>Flash Point</b> (Method Used): N/A	<b>Flammable Limits:</b> Autoignition Temperature: 450°C (Charcoal, Activated )
<b>Extinguishing Media:</b> Suitable extinguishing agents, CO <sub>2</sub> extinguishing powder, water spray, or appropriate foam.	
<b>Special Fire Fighting Procedures:</b> Fight larger fires with water or alcohol resistant foam. Firefighters should wear protective equipment and self-contained breathing apparatus.	
<b>Unusual Fire and Explosion Hazards:</b> During heating or in case of fire, poisonous gases are produced. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard.	

### Section 6. Accidental Release Measures

**Personal Precautions:** Shut off all sources of ignition. Wear respirator, chemical safety goggles, rubber boots, and rubber gloves. Absorb material, ventilate area, and wash spill site after material has been cleaned up. Prevent direct contact with skin, eyes, or clothing. Place contaminated material in a chemical waste container.

**Environmental Precautions:** Prevent dispersion of material. Do not allow to enter drains or water courses. Water runoff can cause environmental damage.

**Clean-up Methods:** Contact safety officer and ventilate spill area. Absorb spill with inert material, including dry-lime, sand, or soda ash. Place into a chemical waste container using non-sparking tools. Wash spill site.

### Section 7. Handling and Storage

**Handling:** Protect against physical damage. Ensure good ventilation / exhaustion. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Do not use if skin is cut or scratched.

**Storage:** Keep container tightly closed. Keep away from incompatible material. Storage area should be cool, dry, and well ventilated. Containers of this material may be hazardous when empty since they retain product residues.

**Other Precautions:** Remove contaminated clothing immediately. Ensure good ventilation. Prevent formation of dust.

### Section 8. Exposure Controls / Personal Protection

**OES:** PEL: 8 H, TWA, 15 mg/m<sup>3</sup> (Charcoal, Activated)

**ACGIH TLV:** N/A

**Engineering Measures:** Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use a dusk mask type N95 (US) or type P1 (EN 143). Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Proper ventilation, safety shower, and eye bath required.

**Respiratory Protection** (Specify Type): With sufficient ventilation, breathing apparatus is not necessary. In the event of possible spill / exposure, use dust mask to EN 149 FFP2S.

**Ventilation:** **Local Exhaust:** 50 – 100 CFM **Special:** Safety shower and eye wash

**Protective Gloves:** Compatible chemical-resistant gloves **Eye Protection:** Safety goggles

**Other Protective Clothing or Equipment:** Uniform, lab coat, or disposable lab wear.

**Work / Hygienic Practices:** Follow the usual precautionary measure for handling chemicals / powder. Keep away from food and beverages. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes, skin, and clothing.

### Section 9. Physical and Chemical Properties

**Boiling Point:** N/A **Specific Gravity (H<sub>2</sub>O = 1):** N/A

**Vapor Pressure (mm Hg.):** < 0.1 mmHG (Charcoal, Activated) **Melting Point:** 220°C (ACES Buffer)

**Vapor Density (AIR = 1):** N/A **Evaporation Rate (Butyl Acetate = 1):** N/A

**Solubility in Water:** Soluble (ACES Buffer), Insoluble (Charcoal, Activated)

**Appearance and Odor:** White crystals (ACES Buffer), Solid black powder granules, odorless (Charcoal, Activated).

### Section 10. Stability and Reactivity

<b>Stability:</b>	Unstable		Conditions to Avoid: Stable under ordinary storage conditions.
	Stable	X	

**Incompatibility (Materials to Avoid):** Incompatible with strong oxidizing agents.

**Hazardous Decomposition or Byproducts:** Carbon monoxide, Carbon dioxide, Nitrogen oxides, and Sulfur oxides.

<b>Hazardous Polymerization:</b>	May Occur		Conditions to Avoid: Incompatible materials.
	Will Not Occur	X	

**Section 11. Toxicological Information****LD<sub>50</sub>:** IVN-MSE, 440 mg/kg (Charcoal, Activated). Chronic exposure, reproductive hazard in rats.**LD<sub>50</sub>:** N/A (ACES Buffer)**Section 12. Ecological Information****Ecotoxicity Tests:** N/A**Section 13. Disposal Information**

**Waste Disposal Method:** Dispose in accordance with all applicable federal, state, and local environmental regulations. Keep waste separate. Contact a licensed professional waste disposal service to dispose of this material if questions arise. Do not allow to reach ground water, water bodies, or sewage system.

**Container Information:** Do not remove labels from containers until they have been cleaned.

**Section 14. Transport Information****ACES Buffer\***

UN # ---

Class:--

Packing Group: --

Hazard Class: --

IATA: Non-Hazardous for Air Transport

\*Non-hazardous for transport.

**Charcoal, Activated\***

UN #--

Class:--

Packing Group:--

Hazard Class:--

IATA: Non-Hazardous for Air Transport

\*Non-hazardous for transport.

**Section 15. Regulatory Information****EU Regulations****Hazard Symbols:****ACES Buffer:** Xi (Irritant)**Charcoal, Activated:** Xi (Irritant)**Risk Phrases:****ACES Buffer:** N/A**Charcoal, Activated:** R 36 / 37, Irritating to eyes, Irritating to respiratory system.**Safety Phrases:****ACES Buffer:** NA**Charcoal, Activated:** S 24 / 25 / 26 / 36, Avoid contact with skin, Avoid contact with eyes, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.**Section 16. Other Information**

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