



Azco Biotech, Inc.
11387 Ocean Ridge Way
San Diego, CA 92130
Office: 858.259.9528
Fax: 858.481.0142

Ac-dC CE Phosphoramidite

MATERIAL SAFETY DATA SHEET

Azco Biotech, Inc
11387 Ocean Ridge Way
San Diego, CA 92130

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Emergency Phone: 800-424-9300
(CHEMTREC 24hr)

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: 20-8230-XX
NAME: Ac-dC CE Phosphoramidite

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Proper Name: 5'-Dimethoxytrityl-N-Acetyl-2'-deoxyCytidine,3'-[(2-cyanoethyl)- (N,N-diisopropyl)]-phosphoramidite
Chemical Family: Protected Nucleoside
CAS Number: 154110-49-4
M.W.: 771.85
Formula: C₄₁H₅₀N₅O₈P
TRADE NAME: Ac-dC CE Phosphoramidite

SECTION 3. HAZARDS IDENTIFICATION

Essentially 100%: 5'-Dimethoxytrityl-N-Acetyl-2'-deoxyCytidine,3'-[(2-cyanoethyl)- (N,N-diisopropyl)]-phosphoramidite
Contains no Metals, Pigments, Catalysts, Vehicle, Coating, Flux
Exposure Limits OSHA PEL: None assigned

SECTION 4. PHYSICAL PROPERTIES

Appearance: White to off-white free-flowing powder
Odor: None
Vapor Pressure: N/A
Vapor Density: N/A
Percent Volatile by Volume : 0
Specific Gravity: Not available
Solubility in H₂O: Insoluble



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Melting Point: Not available

Solubility: Acetonitrile

Boiling Point: Decomposes

SECTION 5. FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

Flammable Limits:

- A finely divided dust aerosol may be explosive although the exact conditions of the hazard are unknown.
- Avoid dispersing dust.

Extinguishing Media: Use extinguishing media suitable for surrounding fire.

Special Fire Fighting Procedures: None known

Unusual Fire and Explosion Hazards: None known

SECTION 6. SPECIAL PROTECTION

Use with adequate ventilation.

Respiratory Protection:

- A NIOSH dust mask is recommended when a possibility of dust inhalation exists.
- Local exhaust is usually sufficient.
- Protective gloves:
- Impervious gloves are recommended to prevent repeated or prolonged skin contact.

Eye Protection: Laboratory safety glasses should be worn to prevent eye contact.

Other Protective Equipment: Normal laboratory apparel.

SECTION 7. Special PRECAUTIONS

Avoid all direct contact.

Store between -10° and 0°C in a dry area.

SECTION 8. REACTIVITY DATA

Stable material at room temperatures and pressure in a dry environment.

Hazardous polymerization will not occur.

Incompatible with bases, acids, and water.

Avoid moist environments.



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Decomposition Products:

- Toxic oxides of nitrogen and carbon may evolve when heated to decomposition.

SECTION 9. HEALTH HAZARD DATA

Threshold limit value: Unknown.

Overexposure Effects: No data known.

- Material of unknown toxicity should be handled with care; all exposure should be minimized.

Emergency First Aid Procedures:

Ingestion:

- Contact physician.
- Never induce vomiting or give liquids to someone who is unconscious or cannot swallow.

Eye contact: Flush thoroughly with water.

Skin contact: Flush thoroughly with water.

SECTION 10. SPILL AND LEAKAGE PROCEDURES

Take basic hygiene precautions for handling small releases.

Wear gloves, lab coat, and eye protection.

If a spill occurs, sweep up and place material in a suitable container for disposal.

Waste Disposal: Comply with federal, state, and local regulations.

SECTION 11. OTHER INFORMATION

The above information is believed to be correct and shall be used only as a guide. The information may be inclusive. Azco Biotech, Inc. shall not be held liable for any damage resulting from handling or from contact with the above material.