

## MATERIAL SAFETY DATA SHEET

**IDENTITY:** Cocaine in Acetonitrile

### SECTION I

Manufacturer: Cerilliant Corporation  
811 Paloma, Suite A  
Round Rock, TX 78664

Emergency Telephone Number: (512) 238-9974  
Date Prepared: June 16, 2007

### SECTION II - HAZARDOUS COMPONENTS/IDENTITY INFORMATION

Hazardous Components	Synonyms	CAS Number	%
Acetonitrile	Acetonitril (German, Dutch), Cyanomethane, Cyanure de methyl (French), Ethanenitrile, Ethyl nitrile, Methanecarbonitrile, methane, cyano-, methyl cyanide, methylcyanid	75-05-8	99.9
Cocaine	beta-Cocain; Benzoylmethylecgonine; cocaine; (-)-Cocaine; Cocaine Free Base; D-cocaine; L-Cocain; Methylbenzoylecgonine	50-36-2	0.1

### SECTION III – Hazard Identification

Flammable. Highly Flammable (EU). Toxic. Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system, and skin. Target Organs: Central Nervous System. Liver.

### SECTION IV – First Aid Measures

**Eye Contact:** Flush eyes with copious amounts of water for a minimum of 15 minutes and transport to a medical facility.

**Ingestion:** Do not induce vomiting. Give victim large quantities of liquid and transport to a medical facility.

**Skin Contact:** Wash affected areas with copious amounts of water and transport to a medical facility.

**Inhalation:** Remove to fresh air. If breathing is disturbed, give artificial respiration while transporting to a medical facility.

### SECTION V- Fire Fighting Measures

**Flash Point:** 42°F (6°C)

**Flammable Limits**

**Method Used:** Closed Cup      **LEL:** 4.4%      **UEL:** 16.0%

**Extinguishing Media:** Dry chemical, carbon dioxide or Halon extinguisher.

**Special Fire Fighting Procedures:** Wear SCBA and protective clothing to prevent contact with skin and eyes.

**Unusual Fire and Explosion Hazards:** Flashback along vapor trail may occur.

### SECTION VI- Accidental Release Measures

Evacuate area. Remove all sources of ignition. Use inert absorbent to pick up all spilled material. Transfer to a suitable waste container with non-sparking tools. Wash spill site with appropriate cleaning agent to remove residual traces of spilled material.

### SECTION VII- Handling and Storage

**Handling:** Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged repeated exposure. Wash thoroughly after handling.

**Storage:** Refrigerate or freeze. Protect from light. Keep container closed. Keep away from ignition sources.

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**SECTION VIII-Exposure Controls/Personal Protection**


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As appropriate to quantity handled.

**Ventilation - Local Exhaust:** Use with forced ventilation.

**General Mechanical:** Normal laboratory air exchange.

**Special:** N/A

**Respiratory Protection:** NIOSH approved cartridge type respirator with organic vapor cartridges recommended.

**Eye Protection:** Safety glasses with side shields or chemical safety goggles.

**Protective Gloves:** Compatible chemical resistant gloves.

**Other Protective Clothing or Equipment:** Lab Coat

**Work/Hygienic Practices:** Only experienced personnel should be allowed to handle this material.

Exposure Limits				
	OSHA PEL	ACGIH TLV	DFG MAK	Other Limits
Acetonitrile	TWA 40 ppm STEL 60 ppm	TWA 20 ppm (skin)	40 ppm	NIOSH REL TWA 34 mg/m <sup>3</sup> (nitriles)
Cocaine	N/A	N/A	N/A	N/A

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**SECTION IX-Physical/Chemical Properties**


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**Boiling Point (degrees C):** 82 (179.6 F) (Acetonitrile)

**Specific Gravity (Water=1):** 0.783 (Acetonitrile)

**Vapor Pressure (mmHg):** 100 @ 27°C (Acetonitrile)

**Melting Point (degrees C):** -45 (Acetonitrile)

**Vapor Density (Air=1):** 1.42 (Acetonitrile)

**Evaporation Rate (Butyl Acetate=1):** 5.79

**Solubility in Water:** Miscible (Acetonitrile)

**Appearance and Odor:** Clear, colorless liquid, ethereal odor (acetonitrile)

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**SECTION X-Stability and Reactivity**


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**Stability:** Stable

**Conditions to Avoid:** Light, Heat, sparks or other sources of ignition.

**Incompatible Materials:** Acids, bases, oxidizing agents, reducing agents, alkali metals, nitrogen-fluorine compounds, oleum, perchlorates, nitrating agents, indium, dinitrogen tetroxide.

**Hazardous Dcmp Pdts:** Highly toxic fumes of carbon monoxide, carbon dioxide, and nitrogen oxides.

**Hazardous Polymerization:** Will Not Occur

**Conditions to Avoid:** N/A

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**SECTION XI-Toxicological Information**


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**Routes of Entry:**            **Inhalation?** Yes    **Skin?** Yes            **Ingestion?** Yes

**Carcinogenicity:**            **NTP?** N/A            **IARC?** N/A            **OSHA?** N/A

**Symptoms of Exposure:**

Exposure to Acetonitrile may cause eye and skin irritation, nausea, vomiting, constriction of the throat, confusion, headache, tachycardia, dyspnea, chest pain, cough, bile- or blood-stained emesis, tachypnea, cyanosis, lacrimation, convulsions, coma, diarrhea, abdominal pain, weakness, fatigue, flushing of the face, tightness of the chest, difficult breathing, respiratory depression, shock, dizziness, drowsiness, drop in blood pressure, rapid pulse, lassitude, stupor, irritability, unconsciousness and death.



**Toxicity Data:**

Acetonitrile  
oral-human TD<sub>LO</sub>:570 mg/kg  
inhalation-human TC<sub>LO</sub>: 160 ppm/4H  
oral-rat LD<sub>50</sub>: 2730 m/kg  
inhalation-rat LC<sub>50</sub> 7551 ppm/8H  
intraperitoneal-rat LD<sub>50</sub>:850 mg/kg  
intravenous-rat LD<sub>50</sub>:1680 mg/kg

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**SECTION XII-Ecological Information**

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No data available.

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**SECTION XIII-Disposal Considerations**

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Waste materials should be disposed of under conditions that meet Federal, State, and Local environmental control regulations. Contact a licensed waste disposal specialist to dispose of this material.

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**SECTION XIV- Transportation Information**

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DOT Proper Shipping Name: Acetonitrile UN #: 1648 Class: 3 Packing Group: II Small quantities exempted	IATA Proper Shipping Name: Acetonitrile UN #: 1648 Class: 3 Packing Group: II Small quantities exempted
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**SECTION XV-Regulatory Information**

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**EU Directives Classification**

**Symbol of Danger:** F Xn

**Indication of Danger:** Highly Flammable. Harmful.

R:11 20/21/22 36

**Risk Statements:**

Highly Flammable. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes.

S: 16 36/37

**Safety Statements:** Keep away from sources of ignition-no smoking. Wear suitable protective clothing and gloves.

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**SECTION XVI-Other Information**

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