

MATERIAL SAFETY DATA SHEET**IDENTITY:** (±)-Methamphetamine in Methanol**SECTION I****Manufacturer:** Cerilliant Corporation
811 Paloma, Suite A
Round Rock, TX 78664Emergency Telephone Number: (512) 238-9974
Date Prepared: April 24, 2006**SECTION II - HAZARDOUS COMPONENTS/IDENTITY INFORMATION**

Hazardous Components	Synonyms	CAS Number	%
Methanol	Methyl alcohol, alcool methylique (french), alcool metallico (Italian), carbinol, Colonial spirit, methanolo (Italian), methylalkohol (German), methyl hydroxide, wood alcohol, metylowy alkohol (Polish)	67-56-1	99.9
(±)-Methamphetamine	N/A	4846-07-5	0.1

SECTION III – Hazard Identification

Flammable. Highly Flammable (EU). Toxic. Methanol is a human poison by ingestion. Exposure to Methanol may result in severe skin and eye irritation, blindness and narcosis. It can be absorbed through the skin. Target Organs: Eyes. Kidneys.

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:** 52°F (11°C)
Method Used: Closed Cup**Flammable Limits**
LEL: 6.0% **UEL:** 36.5%**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 removal 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. Protect from light. Keep container closed. Keep away from ignition sources.

SECTION VIII-Exposure Controls/Personal Protection

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
Methanol	TWA 200 ppm STEL 250 ppm	TWA 200 ppm STEL 250 ppm	200 ppm	NIOSH REL TWA 200 ppm CL 800 ppm/15M
(±)-Methamphetamine	N/A	N/A	N/A	N/A

SECTION IX-Physical/Chemical Properties

Boiling Point (degrees C): 64.6 (148°F) (Methanol)

Melting Point (degrees C): -98 (Methanol)

Specific Gravity (Water=1): 0.7913 (Methanol)

Vapor Pressure (mmHg): 97 @ 20°C (Methanol)

Vapor Density (Air=1): 1.11 (Methanol)

Evaporation Rate (Butyl Acetate=1): 5.9 (Methanol)

Solubility in Water: Miscible (Methanol)

Appearance and Odor: Clear, colorless liquid, slight alcoholic odor (Methanol).

SECTION X-Stability and Reactivity

Stability: Stable

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

Incompatible Materials: Acids, acid chlorides, acid anhydrides, oxidizing agents, reducing agents, and alkali metals

Hazardous Dcmp Pdts: Toxic fumes of carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur

Conditions to Avoid: N/A

SECTION XI-Toxicological Information

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

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

Symptoms of Exposure:

Exposure to Methanol may cause burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, eye damage, convulsions, fatigue, drowsiness, and central nervous system depression.

Toxicity Data:

Methanol:

oral-man LD₅₀:6422 mg/kg
 oral-man TD₅₀:3429 mg/kg
 oral-human LD₅₀:428 mg/kg
 oral-human LD₅₀:143 mg/kg
 oral-woman TD₅₀:4 g/kg mg/kg
 inhalation-human TC₅₀: 86,000 mg/m³
 inhalation-human TC₅₀: 86300 ppm
 intraperitoneal-rat LD₅₀:7529 mg/kg
 intravenous-rat LD₅₀:2131 mg/kg
 skin-monkey LD₅₀:393 mg/kg

The toxicological properties of this formulation have not been fully investigated. It should be assumed to have toxic effects and, therefore, procedures appropriate for the safe handling of hazardous chemicals should be followed.

SECTION XII-Ecological Information

Acute Toxicity Tests

Fish: Onchorhynchus mykiss (Rainbow trout): LC₅₀ 19,000 mg/L/96H
 Fish: Cyprinus carpio LC₅₀ 36,000 mg/L/48H
 Fish: Daphnia magna EC₅₀ 24,500 mg/L/48H
 Fish: Daphnia magna EC₁₀₀ 19,000 mg/L/24H

SECTION XIII-Disposal Considerations

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.

SECTION XIX- Transportation Information

DOT Proper Shipping Name: Methanol UN #: 1230 Class: 3 Packing Group: II Small quantities exempted	IATA Proper Shipping Name: Methanol UN #: 1230 Class: 3 Packing Group: II Small quantities exempted
---	--

SECTION XV-Regulatory Information

EU Directives Classification

Symbol of Danger: F T

Indication of Danger: Highly Flammable. Toxic.

R:11 23/24/25 39/23/24/25

Risk Statements:

Highly Flammable, toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

S: 7 16 36/37 45

Safety Statements: Keep container tightly closed. Keep away from sources of ignition-no smoking. Wear suitable protective clothing and gloves. In case of an accident or if you feel unwell, seek medical advice immediately.

SARA 313 reporting required.

SECTION XVI-Other Information

The information contained herein is believed to be accurate and is supplied in good faith. Cerilliant Corporation makes no warranty with respect to and assumes no legal responsibility for use of or reliance upon this information. Individuals receiving this data must exercise their own judgement in determining its suitability for a particular purpose.