



## MATERIAL SAFETY DATA SHEET

### SECTION 1. Chemical Product and Company Identification Misoprostol (free acid)

**Product Code:** 13821 , **Reference #:** 112137-89-0

**Product Name:** Misoprostol (free acid)

**CAS Number:** 112137-89-0

**Synonyms**

9-oxo-11.alpha.,16-dihydroxy-16-methyl-prost-13E-en-1-oic acid

**Manufacturer Name and Address:**

Cayman Chemical Company  
1180 E. Ellsworth Rd.  
Ann Arbor, MI. 48108

Cayman Chemical Company  
Cayman Chemical Company  
(734)971-3335

**Telephone Numbers: Dates:**

(800)364-9897

Date Entered: 05/17/2000

Revision: 12/18/2003

Printed: 12/18/2003

### SECTION 2. Composition/Information on Ingredients Misoprostol (free acid)

**Hazardous Components (Specific Chemical Identity/Common Name)**

**Name:** Misoprostol (free acid)

**CAS #:** 112137-89-0

**Percentage:** 1.0 %

**OSHA PEL:** No data.

**ACGIH TLV:** No data.

**Name:** Methyl acetate {Methyl ester of acetic acid}

**CAS #:** 79-20-9

**Percentage:** 99.0 %

**OSHA PEL:** 8H TWA:200ppm (610 mg/m3)

**ACGIH TLV:** No data.

### SECTION 3. Hazards Identification Misoprostol (free acid)

**Emergency Overview**

No data available.

**Route(s) of Entry:** Inhalation? No , Skin? Yes , Eyes? Yes , Ingestion? Yes , Other: Injection

**Potential Health Effects (Acute and Chronic)**

Females of childbearing potential should avoid this chemical; contact may induce uterine contractions.

Material is irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause adverse reproductive effects in males and/or females.

May cause congenital malformation in the fetus.

May cause eye, skin, or respiratory system irritation.

May cause gastrointestinal disturbances, nausea, and vomiting.

May cause harm to unborn child.

May impair fertility.

Repeated exposure may cause skin dryness or cracking.  
Stimulates smooth muscle contraction.  
Vapors may cause drowsiness and dizziness.  
Toxic if swallowed.  
The toxicological properties of this compound have not been fully evaluated.  
**Carcinogenicity:** NTP? No , IARC Monographs? No , OSHA Regulated? No  
**Carcinogenicity/Other Information**  
No data available.  
**Signs and Symptoms Of Exposure**  
Irritating to the skin, eyes, nose, throat, and respiratory tract.

#### **SECTION 4. First Aid Measures Misoprostol (free acid)**

##### **Emergency and First Aid Procedures**

If inhaled remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.  
If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.  
In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes examined and tested by medical personnel.  
In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

##### **Note to Physician**

No data available.

##### **Medical Conditions Generally Aggravated By Exposure**

No data available.

#### **SECTION 5. Fire Fighting Measures Misoprostol (free acid)**

**Flash Pt:** 15.00 F **Method Used:** See note below.

**Explosive Limits:** LEL: 3.1% UEL: 16%

**Autoignition Pt:** 936.00 F **Extinguishing Media**

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray when fighting fires involving this material.

##### **Fire Fighting Instructions**

As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Note: Flammable as diluted in methyl acetate

##### **Flammable Properties and Hazards**

Can release vapors that form explosive mixtures at temperatures at or above the flash point.

Container explosion may occur under fire conditions.

Emits toxic fumes under fire conditions.

Flammable liquid.

Vapors can travel to a source of ignition and flash back.

##### **Hazardous Combustion Products**

carbon dioxide

carbon monoxide

#### **SECTION 6. Accidental Release Measures Misoprostol (free acid)**

##### **Steps To Be Taken In Case Material Is Released Or Spilled**

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

After removal, ventilate contaminated area and flush thoroughly with water.



<b>Other Solubility Notes:</b>	*PBS pH 7.2, sol. in EtOH, DMSO, & DMF
<b>Percent Volatile:</b>	NE or NA
<b>Saturated Vapor Concentration:</b>	No data.
<b>Viscosity:</b>	No data.
<b>Molecular Formula:</b>	C21H36O5
<b>Molecular Weight:</b>	368.50
<b>pH:</b>	No data.
<b>Appearance and Odor</b>	
A clear, colorless solution.	

### SECTION 10. Stability and Reactivity Misoprostol (free acid)

**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability**  
 No data available.  
**Incompatibility - Materials To Avoid**  
 protect from moisture  
 strong oxidizing agents  
**Hazardous Decomposition Or Byproducts**  
 carbon dioxide  
 carbon monoxide  
**Hazardous Polymerization:** Will occur [ ] Will not occur [ X ]  
**Conditions To Avoid - Hazardous Polymerization**  
 No data available.

### SECTION 11. Toxicological Information Misoprostol (free acid)

The toxicological effects of this compound have not been thoroughly studied.  
**Chronic Toxicological Effects**  
 No data available.

### SECTION 12. Ecological Information Misoprostol (free acid)

Runoff from fire control or dilution water may cause pollution.

### SECTION 13. Disposal Considerations Misoprostol (free acid)

**Waste Disposal Method**  
 Dispose in accordance with local, state, and federal regulations.

### SECTION 14. Transport Information Misoprostol (free acid)

**DOT Proper Shipping Name**  
 Methyl acetate  
**DOT Hazard Class:** 3  
**DOT Hazard Label:** Flammable Liquid  
**UN/NA Number:** 1231  
**Additional Transport Information**  
 Transport in accordance with local, state, and federal regulations.

**SECTION 15. Regulatory Information**  
**Misoprostol (free acid)**

This product is subject to SARA Sec 313 reporting requirements. This product is or contains chemical(s) known to the state of California to cause cancer.

**SECTION 16. Other Information**  
**Misoprostol (free acid)**

For research use only, not for human or veterinary clinical use.

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