



MATERIAL SAFETY DATA SHEET

SECTION 1. Chemical Product and Company Identification Misoprostol

Product Code: 13820 , **Reference #:** 59122-46-2

Product Name: Misoprostol

CAS Number: 59122-46-2

Chemical Family: Prostaglandins

Synonyms

9-oxo-11.alpha.,16-dihydroxy-16-methyl-prost-13E-en-1-oic acid, methyl ester; Cytotec;
SC-29333

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: 07/23/1999

Revision: 06/10/2004

Printed: 06/10/2004

SECTION 2. Composition/Information on Ingredients Misoprostol

Hazardous Components (Specific Chemical Identity/Common Name)

Name: Misoprostol

CAS #: 59122-46-2

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

Emergency Overview

No data available.

Route(s) of Entry: Inhalation? Yes , 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 impair fertility.
Repeated exposure may cause skin dryness or cracking.
Stimulates smooth muscle contraction.
The toxicological properties of this compound have not been fully evaluated.
This chemical has the potential to induce premature labor or abortion.
Toxic.
Vapors may cause drowsiness and dizziness.
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

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

Flash Pt: -16.00 C **Method Used:** closed cup

Explosive Limits: LEL: 3.1% UEL: 16%

Autoignition Pt: 502.00 C Extinguishing Media

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

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

No data available.

SECTION 6. Accidental Release Measures Misoprostol

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.

Other Solubility Notes: *PBS pH 7.2, sol. in EtOH, DMSO, & DMF
Percent Volatile: No data.
Saturated Vapor Concentration: No data.
Viscosity: No data.
Molecular Formula: C22H38O5
Molecular Weight: 382.50
pH: No data.
Appearance and Odor
 A clear, colorless solution

SECTION 10. Stability and Reactivity Misoprostol

Stability: Unstable [] Stable [X]
Conditions To Avoid - Instability
 protect from moisture
Incompatibility - Materials To Avoid
 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

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

SECTION 12. Ecological Information Misoprostol

Runoff from fire control or dilution water may cause pollution.

SECTION 13. Disposal Considerations Misoprostol

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

SECTION 14. Transport Information Misoprostol

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

Regulatory information on this product is not available.

**SECTION 16. Other Information
Misoprostol**

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

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us.

However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.