

15(S)-15-methyl Prostaglandin F2 α methyl ester: sc-205040



MATERIAL SAFETY DATA SHEET

The Power to Question

SECTION 1. Chemical Product and Company Identification

Product Name: 15(S)-15-methyl Prostaglandin F2 α methyl ester
Product Number: sc-205040
Chemical Family: Prostaglandin
Synonyms: 9.alpha.,11.alpha.,15S-trihydroxy-15-methyl-prosta-5Z,13E-dien-1 -oic acid, methyl ester; Methyl carboprost; U-36384
Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800
Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

SECTION 2 – Hazardous Ingredients/Identity Information

Molecular Formula: C22H38O5

Molecular Weight: 382.50

CAS #: 35700-21-1

NFPA Ratings:

NFPA Specific Hazards

Health: 2
Flammability: 0
Reactivity: 0

SECTION 3- Physical/Chemical Characteristics

Physical States	Solid	Boiling Point	NA
Melting Point	54° C to 56° C	Specific Gravity	NA (Water = 1)
Vapor Pressure	NA (mm Hg)	Vapor Density	NA (Air = 1)
Evaporation Rate	NA (Butyl Acetate = 1)	Percent Volatile	NA
Solubility In Water	>5 mg/ml* at 25° C		
	Other: *PBS pH 7.2, sol. in EtOH, DMSO, & DMF		

SECTION 4 – Fire and Explosion Hazard Data

Flash Point: NA

Method Used: NA

Explosive Limits:

LEL N/A

UEL N/A

Autoignition Point: NA

Extinguishing Media:

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

Special Fire Fighting Procedures: NA

Unusual Fire and Explosion Hazards: NA

SECTION 5 – Reactivity Data

Stability: Unstable [X] Stable []

Conditions To Avoid – Instability:

Material is unstable in strong acids and bases.

Incompatibility – Materials To Avoid:

Strong acids, strong bases

Hazardous Decomposition Or Byproducts: NA

Hazardous Polymerization: May occur [] Will not occur [X]

Conditions To Avoid – Hazardous Polymerization: NA

SECTION 6 – Health Hazard Data

Route(s) of Entry: Inhalation? Yes , Skin? Yes , Eyes? Yes , Ingestion? Yes Other: NA

Health Hazards (Acute and Chronic):

Contact may cause skin or eye irritation. Females of childbearing potential should avoid this chemical; contact may induce uterine contractions. May cause adverse reproductive effects in males and/or females. May cause gastrointestinal disturbances. May cause increased bone formation. May cause intense bronchospasm (particularly in asthmatic patients). Stimulates smooth muscle contractions.

Carcinogenicity: NTP? No , IARC Monographs? No , OSHA Regulated? No

Carcinogenicity/Other Information:

Effects observed in male Sprague/Dawley rats treated with 1% and 2% carboprost methyl scrotal implants for up to 28 days were: decreased testicular and accessory gland weights, decrease in spermatogenesis, and decreased serum hormonal concentrations (testosterone, luteinizing hormone, and follicle stimulating hormone). Hormone levels returned to control values as drug concentrations declined.

The lowest toxic dose in the pregnant human female: 10–60 ug/kg of carboprost methyl from intravaginal suppository or pessary administration, resulted in termination of pregnancy (dosage dependent on stage of pregnancy).

Recommended Exposure Limits:

LD 50/LC 50: N/A

Signs and Symptoms Of Exposure:

Irritating to the skin, eyes, nose, throat, and respiratory tract.

Medical Conditions Generally Aggravated By Exposure: NA

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. 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 15 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.

SECTION 7 – Precautions for Safe Handling and Use

Steps To Be Taken In Case Material Is Released Or Spilled:

Vacuum or sweep up material and place in disposal container. After removal, ventilate contaminated area and flush thoroughly with water.

Waste Disposal Method:

Dispose in accordance with local, state and federal regulations.

Hazard Label Information: Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling.

Precautions To Be Taken in Handling and Storing:

Avoid contact with eyes, skin, and clothing. Do not reuse this container. Pregnant females should avoid exposure to this compound. Store at -20° C. Use with adequate ventilation. Wash thoroughly after handling.

Other Precautions: NA

SECTION 8- Control Measures

Protective Equipment Summary – Hazard Label Information Eye wash station in work area Lab coat Latex disposable gloves Safety glasses Safety shower in work area Vent Hood

Respiratory Equipment (Specify Type):

Ventilation:

Good general ventilation should be sufficient to control airborne levels.

Eye Protection:

Safety glasses

Protective Gloves:

Latex disposable gloves

Other Protective Clothing:

Lab coat

Work/Hygienic/Maintenance Practices:

Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Wash thoroughly after handling.

SECTION 9. Other Information

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

8/22/2011