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## SAFETY DATA SHEET (MSDS)

**Date of Preparation or Revision:** October 11, 2001

### IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY:

Catalog Number: 367222  
Product Name: Gonadotropin, Pregnant Mare Serum  
Supplier: CALBIOCHEM®  
P.O. Box 12087  
La Jolla, CA 92039-2087  
Telephone: (858) 450-5558  
(800) 854-3417  
Fax: (858) 453-3552  
Emergency Contact: CHEMTREC®  
(800) 424-9300 (within U.S.A.)  
(703) 527-3887 (outside U.S.A.)

### COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name: Gonadotropin, Pregnant Mare Serum  
Synonym: PMSG  
Hazardous Ingredient: Gonadotropin, Pregnant Mare Serum  
CAS Registry Number: 9002-70-4

### HAZARDOUS IDENTIFICATION:

**Acute Effects:** Exposure to material may cause the following: sensitivity reactions, abdominal discomfort, ovarian rupture, and intraperitoneal hemorrhage.

**Chronic Effects:** There is limited evidence that Gonadotropin is teratogenic in laboratory animals. Until further testing has been done, it should be treated as a possible teratogen in humans.

### FIRST AID MEASURES:

In cases of skin contact, wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes and wash before wearing. Consult a physician.  
In cases of eye contact, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.  
In cases of inhalation, remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen and consult a physician. If breathing stops, give artificial respiration and consult a physician.  
In cases of ingestion, wash mouth out with water and consult the local poison center and a physician.

### FIRE-FIGHTING MEASURE:

**Extinguishing Media:** Water spray.  
**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.  
**Unusual Fire and Explosive Hazards:** Upon thermal decomposition, it may **EMIT TOXIC GASES.**

### ACCIDENTAL RELEASE MEASURES:

**Steps to be Taken if Material is Released or Spilled:** Evacuate area. Wear a respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Sweep up and place in a suitable container. Avoid raising dust. Hold for appropriate disposal. Wash spill site and ventilate area after material pickup is complete.

## HANDLING AND STORAGE:

Store in a tightly closed container in a +4°C refrigerator. Protect from moisture. Possible teratogen. Avoid contact with material. Avoid prolonged or repeated exposure. Lab should be equipped with a safety shower and an eye wash station. Wash thoroughly after handling material.

## EXPOSURE CONTROLS/PERSONAL PROTECTION:

Protective Equipment: Wear suitable protective clothing, such as chemical resistant gloves and chemical safety goggles.

Respiratory Protection and Ventilation: Use a NIOSH/MSHA approved respirator. Handle in a chemical fume hood with adequate ventilation.

## PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Lyophilized solid. Packaged under an inert gas.

Flash Point: N/A

Solubility: Soluble in water.

## STABILITY AND REACTIVITY:

Stability: Stable under normal handling procedures.

Incompatibilities and Conditions to Avoid: Product should not be allowed to come in contact with ruminating animals or swine.

Hazardous Combustion or Decomposition Products: Upon thermal decomposition, may emit toxic gases including carbon monoxide, carbon dioxide, and nitrogen oxides.

## TOXICOLOGICAL INFORMATION:

RTECS Number: TU4517000

### Reproductive Effects and References:

lpr; rat; Dose: 188 mg/kg Toxic effects on fertility 1968. *Endocrinology*. **83**, 217.

lpr; rat; Dose: 11700 µg/kg Fetal death 1968. *Endocrinology*. **83**, 217.

lpr; ham; Dose: 300 mg/kg Pre-implantation mortality 1968. *Endocrinology*. **83**, 217.

lpr; ham; Dose: 37500 µg/kg Fetal death 1968. *Endocrinology*. **83**, 217.

Scu; rat; Dose: 18750 µg/kg Parturition 1969. *Biology of Reproduction*. **1**, 387.

Scu; rat; Dose: 50 mg/kg Toxic maternal effects 1958. *Endocrinology*. **63**, 135.

Scu; rat; Dose: 10 mg/kg Extra embryonic structures; fetotoxicity 1981. *Biology of Reproduction*. **25**, 253.

Scu; rat; Dose: 12500 µg/kg Toxic effects on fertility 1972. *Biology of Reproduction*. **7**, 254.

Scu; rat; Dose: 37500 µg/kg Abortion 1978. *Fertility and Sterility*. **29**, 640.

Scu; rat; Dose: 12500 µg/kg Toxic effects on fertility 1976. *Acta Endocrinologica*. **83**, 506.

Scu; mus; Dose: 10 mg/kg Toxic effects on fertility 1972. *Biology of Reproduction*. **7**, 254.

Scu; mus; Dose: 50 mg/kg Pre-implantation mortality 1972. *Biology of Reproduction*. **7**, 254.

Scu; mus; Dose: 1 g/kg Fetal death; craniofacial and musculoskeletal system developmental abnormalities 1958. *Okajimas Folia Anatomica Japonica*. **31**, 198.

Scu; mus; Dose: 50 mg/kg Post-implantation mortality; abortion; toxic maternal effects 1980. *IRCS Medical Science: Library Compendium*. **8**, 117.

lmr; rat; Dose: 453 mg/kg Toxic maternal effects 1954. *Archives Internationales de Pharmacodynamie et de Therapie*. **99**, 97.

### Genetic Data and References:

lpr; mus; Dose: 750 µg/kg Cytogenetic analysis 1977. *Journal of Reproduction and Fertility*. **50**, 275.

Refer to the Registry of Toxic Effects of Chemical Substances (RTECS) for a definition of abbreviations used in the above text and for additional information. This report contains only selected information

from the RTECS.

**ECOLOGICAL INFORMATION:**

No information available.

**DISPOSAL CONSIDERATIONS:**

Country, federal, state, and local regulations are varied and change frequently. For this reason, we recommend that you contact your local Department of Health Services for information on the disposal of this product or arrange for disposal by a licensed disposal company.

**TRANSPORTATION INFORMATION:**

UN Number: N/A  
Proper Shipping Name: N/A  
IATA Class: N/A  
IATA Packing Group: N/A

**REGULATORY INFORMATION: X**

Risk Phrases:  
R40: Possible risk of irreversible effects.

Safety Phrases:  
S22: Do not breathe dust.  
S36: Wear suitable protective clothing.

**OTHER INFORMATION:**

Avoid contact with material. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Material should only be handled by qualified, experienced professionals. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide for experienced personnel. **CALBIOCHEM-NOVABIOCHEM** Corporation shall not be held liable for any damage resulting from the handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.