



SIGMA-ALDRICH

Material Safety Data Sheet

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Version 1.60

Section 1 - Product and Company Information

Product Name	Chorionic gonadotropin, human		
Product Number	CG10		
Brand	Sigma Chemical		
Company	Sigma-Aldrich		
Street Address	3050 Spruce Street		
City, State, Zip, Country	SAINT LOUIS, MO 63103 US		
Technical Phone:	800-325-5832	Emergency Phone:	314-776-6555
Fax:	800-325-5052		

Section 2 - Composition/Information on Ingredient

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>	<u>EC no</u>	<u>Annex I Index Number</u>
CHORIONIC GONADOTROPIN FROM HUMAN PREGNANCY URINE	9002-61-3	No	232-660-2	

Formula
Chemical Family
Synonyms

Human source material.
Ambion, Antuitrin S, APL, APL (hormone), Apoidina, Chorigon, Choriongonadotropin, Choriongonin, Chorionic gonadotrophin, Chorionic gonadotropic hormone, Chorionic gonadotropin, Chorulon, Coriantin, Follutein, Gonabion, Gonadex, HCG, Human chorionic gonadotropin, Korotrin, Phyxex, Praedyn, Pregnyl, Primogonyl, Randonos, Synaphorin

Section 3 - Hazards Identification

Emergency Overview

Biohazard.
Handle as if capable of transmitting infectious agents.

HMIS Rating

Health: 0 Flammability: 0 Reactivity: 0 Special Hazard(s): Human Source

NFPA Rating

Health: 0 Flammability: 0 Reactivity: 0 Special Hazard(s): Human Source

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assume adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A

Extinguishing Media

Suitable
Use extinguishing media appropriate to surrounding fire conditions.

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Section 7 - Handling and Storage

Handling

User Exposure

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed. Store at 2-8°C

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Hand

Compatible chemical-resistant gloves.

Eye

Chemical safety goggles.

General Hygiene Measures
Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance	
Physical State	Solid
Molecular Weight	N/A
pH	N/A
BP/BP Range	N/A
MP/MP Range	N/A
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point °F	N/A
Flash Point °C	N/A
Explosion Limits	N/A
Flammability	N/A
Autoignition Temp	N/A
Solubility	N/A

N/A = not available

Section 10 - Stability and Reactivity

Stability	
Stable	
Materials to Avoid	Strong oxidizing agents
Hazardous Decomposition Products	
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, and nitrogen oxides

Hazardous Polymerization
Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

May cause eye irritation.

Inhalation

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion

May be harmful if swallowed.

Signs and Symptoms of Exposure

Potentially biohazardous material.

RTECS Number: MD6953000

Chronic Exposure - Teratogen

<u>Species</u>	<u>Dose</u>	<u>Route of Application</u>	<u>Exposure Time</u>
Rat	875 MG/KG	Subcutaneous	(15-17D PREG)
Result: Effects on Embryo or Fetus: Extra embryonic structures (e.g., placenta, umbilical cord).			
Hamster	60 MG/KG	Intraperitoneal	(4-6D PREG)
Result: Effects on Embryo or Fetus: Fetal death.			

Chronic Exposure - Reproductive Hazard

<u>Species</u>	<u>Dose</u>	<u>Route of Application</u>	<u>Exposure Time</u>
Result: Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.			
Woman	36 MG/KG	Unreported	(6D PRE)
Result: Effects on Fertility: Other measures of fertility			
Rat	150 MG/KG	Intraperitoneal	(1-3D PREG)
Result: Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea). Effects on Fertility: Other measures of fertility			
Rat	40 MG/KG	Intraperitoneal	(10D MALE)
Result: Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).			
Rat	1250 UG/KG	Subcutaneous	(1D PRE)
Result: Maternal Effects: Ovaries, fallopian tubes. Maternal Effects: Uterus, cervix, vagina.			
Rat	5250 UG/KG	Subcutaneous	(7-13D PREG)
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).			
Rat	16 MG/KG	Subcutaneous	(4D MALE)
Result: Paternal Effects: Other effects on male.			
Rat	8890 UG/KG	Intravenous	(1D PRE)
Result: Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).			
Rat	83 UG/KG	Intramuscular	(9D PREG)
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).			
Rat	125 MG/KG	Parenteral	(4D PRE)
Result: Maternal Effects: Ovaries, fallopian tubes. Maternal Effects: Uterus, cervix, vagina.			
Rat	420 MG/KG	Parenteral	(7D MALE)
Result: Paternal Effects: Testes, epididymis, sperm duct.			
Rat	200 MG/KG	Parenteral	(1D MALE)
Result: Paternal Effects: Other effects on male.			
Rat	1650 MG/KG	Unreported	(1-22D PREG)
Result: Effects on Newborn: Growth statistics (e.g., reduced weight gain).			
Rat	50 MG/KG	Unreported	(4D PREG)
Result: Maternal Effects: Parturition.			
Rat	21212 NG/KG	Unreported	(7-13D PREG)
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).			

Rat	12 MG/KG	Unreported	(1D MALE)
	Result: Paternal Effects: Other effects on male.		
Rat	280 IU/KG	Unreported	(2W MALE)
	Result: Paternal Effects: Testes, epididymis, sperm duct.		
Mouse	24 MG/KG	Intraperitoneal	(6D PRE)
	Result: Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).		
Mouse	400 IU/KG	Intraperitoneal	(1D PRE)
	Result: Maternal Effects: Oogenesis.		
Mouse	560 MG/KG	Subcutaneous	(7-13D PREG)
	Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).		
Mouse	6 MG/KG	Intramuscular	(3D PRE)
	Result: Maternal Effects: Uterus, cervix, vagina.		
Monkey	10 MG/KG	Subcutaneous	(5D PRE)
	Result: Maternal Effects: Menstrual cycle changes or disorders.		
Monkey	224 MG/KG	Intramuscular	(18-36D PREG)
	Result: Maternal Effects: Menstrual cycle changes or disorders.		
Monkey	30 MG/KG	Unreported	(15D PRE)
	Result: Maternal Effects: Parturition.		
Pig	833 UG/KG	Intravenous	(1D PRE)
	Result: Effects on Fertility: Other measures of fertility		
Pig	833 UG/KG	Intramuscular	(1D PRE)
	Result: Effects on Fertility: Other measures of fertility		
Hamster	240 MG/KG	Intraperitoneal	(1-3D PREG)
	Result: Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).		
Hamster	280 MG/KG	Subcutaneous	(7-13D PREG)
	Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).		

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.
Disposal should be made in accordance with existing disposal practices employed for infectious waste at your institution.
Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport This substance is considered to be nonhazardous for transport.

IATA

Non-Hazardous for Air Transport Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: B

Indication of Danger

Biohazard.

US Classification and Label Text

Indication of Danger

Biohazard.

US Statements

Handle as if capable of transmitting infectious agents.

United States Regulatory Information

SARA Listed: No

Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

Section 16 - Other Information

Disclaimer

For R&D use only. Not for drug, household or other uses.

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SigmaAldrich Inc., shall not be held liable for any damage resulting from handling or fom contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.