



# **Material Safety Data Sheet**

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
* (7)	Harmful compound, minimize exposure. Carcinogen. Mutagen.	

Section I. C	hemical Product and Company	Identification	
Chemical Name	Progesterone		
Catalog Number	P0478	Supplier	TCI America 9211 N. Harborgate St.
Synonym	Progestin		Portland OR 1-800-423-8616
Chemical Formula	C <sub>21</sub> H <sub>30</sub> O <sub>2</sub>		
CAS Number	57-83-0	In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)
			(100) 321-0001 (International)

Section II. Composition and Information on Ingredients				
Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Progesterone	57-83-0	Min. 98.0 (GC)		Mouse LD <sub>LO</sub> (intravenous) 100mg/kg

Acute Health Effects Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury or death.

Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

**CARCINOGENIC EFFECTS**: Not available. Chronic Health Effects

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Tumorogenic: mouse (implant) 1400mg/kg/77 weeks continous.

Tumorogenic- Neoplastic by RTECS criteria. mouse (implant) 19000mg/kg/77 weeks continuous. Tumorogenic- Equivocal tumorogenic by RTECS criteria.

DEVELOPMENTAL TOXICITY: Reproductive: woman (intravaginal) 210 mg/kg. duration: female 3 weeks prior to mating.

Maternal effects- Menstrual cycle changes or disorders.

woman (oral) 200 mg/kg. duration: female 20 days prior to matong.

Maternal effects- uterus, cervix, vagina.

Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or

many human organs.

Section IV.	First Aid Measures
Eye Contact	Check for and remove any contact lenses. DO NOT use an eye ointment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. Treat symptomatically and supportively.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing.
Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform artificial respiration. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Losen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, administer artificial respiration. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

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Section V.	Fire and Explosion Data		
Flammability	Combustible.	Auto-Ignition	Not available.
Flash Points	Not available.	Flammable Limits	Not available.
Combustion Products	These products are toxic carbon oxides (	CO, CO <sub>2</sub> ).	
Fire Hazards	No specific information is available regard	ding the flammability of this comp	ound in the presence of various materials.
Explosion Hazards	Risks of explosion of the product in prese Risks of explosion of the product in prese No additional information is available reg	ence of static discharge: Not avail	
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemicals, CO <sub>2</sub> , LARGE FIRE: Use water spray, fog or fo		
Section VI.	Accidental Release Measure	es	
Spill Cleanup Instructions		ater inside container. DO NOT to sements or confined areas; dike	uch spilled material. Use water spray to reduce e if needed. Eliminate all sources of ignition.
Section VII.	Handling and Storage		
Handling and Storage Information	sources of ignition. Mechanical exhaus place. Avoid excessive heat and light.	st required. When not in use, tig DO NOT ingest. DO NOT breatl ed, seek medical advice immedia contact with skin and eyes.	inimize exposure. Keep away from heat and htly seal the container and store in a dry, cool le dust. In case of insufficient ventilation, wear tely and show the container or the label. Treat in the label in the state of the label in the lab
Section VIII.	Exposure Controls/Personal	l Protection	
Engineering Control		operations generate dust, fume	ering controls to keep airborne levels below e or mist, use ventilation to keep exposure to
Personal Protection			OSH approved respirator must be used to avoid ufficient; consult a specialist BEFORE handling
Exposure Limits	This chemical is classified as a possible compound is classified as a possible mut		ptable exposure limit for a carcinogen. This posure limit for a mutagen.
Section IX.	Physical and Chemical Prop	erties	
Physical state @ 20°C Specific Gravity	White powder.  1.17 (water=1)	Solubility -	Soluble in alcohol, acetone, dioxane, concn sulfuric acid. Sparingly soluble in vegetable oils.
	· · · ·	_	Insoluble in water.
Molecular Weight	314.47	Partition Coefficient	Not available.
Boiling Point	Not available.	Vapor Pressure	Not available.
Melting Point	131℃ (267.8℉)	Vapor Density	Not available.
Refractive Index	Not available.	Volatility	Not available.
Critical Temperature	Not available.	Odor	Odorless.
Viscosity	Not available.	Taste	Not available.
Section X.	Stability and Reactivity Data		
Stability	This material is stable if stored under pro	per conditions. (See Section VII f	or instructions)
Conditions of Instability	Light sensitive. Avoid excessive heat and light.		
Incompatibilities	Reactive with strong oxidizing agents.		

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Section XI.	Toxicological Information	
RTECS Number	TW0175000	
Routes of Exposure	Eye contact. Inhalation. Ingestion. Skin contact.	
Toxicity Data	Mouse LD <sub>LO</sub> (intravenous) 100mg/kg	
Chronic Toxic Effects	CARCINOGENIC EFFECTS: Not available.  MUTAGENIC EFFECTS: Not available.  TERATOGENIC EFFECTS: Tumorogenic: mouse (implant) 1400mg/kg/77 weeks continous.  Tumorogenic- Neoplastic by RTECS criteria.  mouse (implant) 19000mg/kg/77 weeks continuous.  Tumorogenic- Equivocal tumorogenic by RTECS criteria.  DEVELOPMENTAL TOXICITY: Reproductive: woman (intravaginal) 210 mg/kg. duration: female 3 weeks prior to mat Maternal effects- Menstrual cycle changes or disorders.  woman (oral) 200 mg/kg. duration: female 20 days prior to matong.	ting.

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Section XII. **Ecological Information** Ecotoxicity Not available. Environmental Fate Not available.

### Section XIII. Disposal Considerations

Maternal effects- uterus, cervix, vagina.

many human organs.

Acute Toxic Effects

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state, and local regulations when disposing of this substance.

## Section XIV. Transport Information DOT Classification Not a DOT controlled material (United States). PIN Number Not applicable. Proper Shipping Name Not applicable. Packing Group (PG) Not applicable. DOT Pictograms

Section XV. Other Regulatory Information and Pictograms TSCA Chemical Inventory This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list. (EPA) WHMIS Classification Not available. (Canada) EINECS Number (EEC) 200-350-6 **EEC Risk Statements** R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin. Japanese Regulatory Data Not available.

#### Section XVI. Other Information

Version 1.0

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**Notice to Reader** 

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(800) 424-9300 Emergency phone number

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TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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