



# MATERIAL SAFETY DATA SHEET

Revision date: 09-Nov-2009

Version: 1.3

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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**CHEMTREC (24 hours): 1-800-424-9300**  
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**ChemSafe (24 hours): +44 (0)208 762 8322**

### Material Name: Pegvisomant for Injection

<b>Trade Name:</b>	Somavert®
<b>Synonyms:</b>	Human Growth Hormone; HG; B2036-PEG; Pegvisomantum
<b>Chemical Family:</b>	Mixture
<b>Intended Use:</b>	Pharmaceutical product for the treatment of growth hormone overproduction (acromegaly).

## 2. HAZARDS IDENTIFICATION

**Appearance:** White sterile lyophilized powder plus sterile diluent .  
**Signal Word:** WARNING

**Statement of Hazard:** Suspected of damaging the unborn child.

**Additional Hazard Information:**  
**Long Term:** Animal studies indicate that this material may cause adverse effects on the developing fetus.  
**Known Clinical Effects:** Adverse effects most commonly reported in clinical use include gastrointestinal disturbances, changes in liver function, flu-like syndrome, fatigue, nausea, diarrhea and flatulence. Individuals sensitive to this material or other materials in its chemical class may develop allergic reactions. Drugs of this class may cause formation of antibodies, changes in blood sugar.

**EU Indication of danger:** Toxic to Reproduction: Category 3

**EU Hazard Symbols:**

Xn



**EU Risk Phrases:**

**Australian Hazard Classification (NOHSC):**

R63 - Possible risk of harm to the unborn child.  
Hazardous Substance. Non-Dangerous Goods.

**Note:** This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the active substance or its intermediates regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

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## 2. HAZARDS IDENTIFICATION

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Pegvisomant	218620-50-9	Not listed	Repr.Cat.3;R63	35-52

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Sodium Phosphate Monobasic, Monohydrate	10049-21-5	Not listed	Not Listed	*
Sodium phosphate, dibasic	7558-79-4	231-448-7	Not Listed	*
Mannitol	69-65-8	200-711-8	Not Listed	*
Glycine	56-40-6	200-272-2	Not Listed	*

**Additional Information:** \* Proprietary  
Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

For the full text of the R phrases mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

**Eye Contact:** Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.

**Skin Contact:** Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.

**Ingestion:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.

**Inhalation:** Remove to fresh air and keep patient at rest. Seek medical attention immediately.

**Symptoms and Effects of Exposure:** For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Use carbon dioxide, dry chemical, or water spray.

**Hazardous Combustion Products:** Formation of toxic gases is possible during heating or fire.

**Fire Fighting Procedures:** During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

**Fire / Explosion Hazards:** Fine particles (such as dust and mists) may fuel fires/explosions.

## 6. ACCIDENTAL RELEASE MEASURES

**Health and Safety Precautions:** Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

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**Measures for Cleaning / Collecting:** Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly.

**Measures for Environmental Protections:** Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

**Additional Consideration for Large Spills:** Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

### 7. HANDLING AND STORAGE

**General Handling:** Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

**Storage Conditions:** Store as directed by product packaging.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

**Pegvisomant**  
Pfizer OEL TWA-8 Hr: 60µg/m<sup>3</sup>

**Glycine**  
Latvia OEL - TWA Listed

**Engineering Controls:** Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne contamination levels below the exposure limits listed above in this section.

**Environmental Exposure Controls:** Refer to specific Member State legislation for requirements under Community environmental legislation.

**Personal Protective Equipment:** Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

**Hands:** Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.

**Eyes:** Wear safety glasses or goggles if eye contact is possible.

**Skin:** Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.

**Respiratory protection:** If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Lyophilized powder plus sterile diluent  
**Color:** White

**Molecular Formula:** Mixture  
**Molecular Weight:** Mixture

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### 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of use.  
**Conditions to Avoid:** Fine particles (such as dust and mists) may fuel fires/explosions.  
**Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

### 11. TOXICOLOGICAL INFORMATION

**General Information:** The information included in this section describes the potential hazards of the active ingredient

#### Acute Toxicity: (Species, Route, End Point, Dose)

##### **Pegvisomant**

Mouse	Subcutaneous	Discriminating Dose	10 mg/kg
Mouse	Intravenous	Discriminating Dose	10 mg/kg
Non-human Primate	Intravenous	Discriminating Dose	100 mg/kg

#### Irritation / Sensitization: (Study Type, Species, Severity)

##### **Pegvisomant**

Skin Irritation	Rabbit	Non-irritating
Antigenicity- Passive cutaneous anaphylaxis	Mouse	Mild
Antigenicity- Passive cutaneous anaphylaxis	Monkey	Mild

#### Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

##### **Pegvisomant**

14 Day(s)	Mouse	Intravenous	3 mg/kg/day	NOAEL	Liver
14 Day(s)	Mouse	Subcutaneous	3 mg/kg/day	LOAEL	Blood Liver
28 Day(s)	Monkey	Subcutaneous	3 mg/kg/day	NOAEL	No effects at maximum dose
6 Month(s)	Rat	Subcutaneous	10 mg/kg/day	NOAEL	Blood Liver Kidney
6 Month(s)	Monkey	Subcutaneous	0.3 mg/kg/week	NOAEL	Bone Marrow

#### Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

##### **Pegvisomant**

Embryo / Fetal Development	Rabbit	Subcutaneous	10 mg/kg/day	NOAEL	Negative
Fertility and Embryonic Development	Rabbit	Subcutaneous	3 mg/kg/day	NOAEL	Fetotoxicity
Embryo / Fetal Development	Rabbit	Subcutaneous	10 mg/kg/day	NOAEL	Not Teratogenic

#### Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

##### **Pegvisomant**

Bacterial Mutagenicity (Ames)	<i>Salmonella</i> , <i>E. coli</i>	Negative
<i>In Vitro</i> Chromosome Aberration	Human Lymphocytes	Negative

**Carcinogen Status:** None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

### 12. ECOLOGICAL INFORMATION

**Environmental Overview:** Environmental properties have not been investigated. Releases to the environment should be avoided.

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## 13. DISPOSAL CONSIDERATIONS

**Disposal Procedures:** Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

## 14. TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

## 15. REGULATORY INFORMATION

**EU Symbol:** Xn  
**EU Indication of danger:** Toxic to Reproduction: Category 3

**EU Risk Phrases:**  
R63 - Possible risk of harm to the unborn child.

**EU Safety Phrases:**  
S36/37 - Wear suitable protective clothing and gloves.

**OSHA Label:**  
WARNING  
Suspected of damaging the unborn child.

### Canada - WHMIS: Classifications

**WHMIS hazard class:**  
Class D, Division 2, Subdivision A



**Pegvisomant**  
**Standard for the Uniform Scheduling for Drugs and Poisons:** Schedule 4

**Sodium Phosphate Monobasic, Monohydrate**  
**Australia (AICS):** Listed

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## 15. REGULATORY INFORMATION

### Sodium phosphate, dibasic

CERCLA/SARA Hazardous Substances and their Reportable Quantities:	2270 kg final RQ 5000 lb final RQ
Inventory - United States TSCA - Sect. 8(b)	Listed
Australia (AICS):	Listed
EU EINECS/ELINCS List	231-448-7

### Mannitol

Inventory - United States TSCA - Sect. 8(b)	Listed
Australia (AICS):	Listed
REACH - Annex IV - Exemptions from the obligations of Register:	Present
EU EINECS/ELINCS List	200-711-8

### Glycine

Inventory - United States TSCA - Sect. 8(b)	Listed
Australia (AICS):	Listed
EU EINECS/ELINCS List	200-272-2

## 16. OTHER INFORMATION

### Text of R phrases mentioned in Section 3

R63 - Possible risk of harm to the unborn child.

**Data Sources:** Pfizer proprietary drug development information. Publicly available toxicity information. Safety data sheets for individual ingredients.

**Reasons for Revision:** Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 4 - First Aid Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 10 - Stability and Reactivity. Updated Section 13 - Disposal Considerations.

**Prepared by:** Toxicology and Hazard Communication  
Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**End of Safety Data Sheet**