

Revision date: 16-Feb-2007 Version: 2.1 Page 1 of 6

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

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Pfizer Pharmaceuticals Group
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Emergency telephone number: Emergency telephone number:

Material Name: Somatropin For Injection (Single Dose Syringe: 0.2mg - 0.4mg)

Trade Name: Genotropin Miniquick®

**Synonyms:** Human Growth Hormone; HGH; Somatotropin

Chemical Family: Mixture

Intended Use: Pharmaceutical product for the treatment of human growth hormone deficiency.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous**

Ingredient	CAS Number	<b>EU EINECS List</b>	%
Somatropin	12629-01-5	235-735-8	12 - 22

Ingredient	CAS Number	<b>EU EINECS List</b>	%
Mannitol	69-65-8	200-711-8	*
Glycine	56-40-6	200-272-2	*
Sodium phosphate, dibasic	7558-79-4	231-448-7	*
Water	7732-18-5	231-791-2	*
Sodium phosphate, monobasic	7558-80-7	231-449-2	*

Additional Information: \* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

### 3. HAZARDS IDENTIFICATION

Appearance: White sterile lyophilized powder plus sterile diluent .

Signal Word: DANGER

Statement of Hazard: Toxic if swallowed.

May cause allergic skin reaction.

Suspected of damaging fertility or the unborn child.

**Additional Hazard Information:** 

Long Term: Animal studies indicate that this material may cause adverse effects on the blood, kidneys,

liver, mammary gland.

Known Clinical Effects: Adverse effects associated with the therapeutic use include glucose intolerance, fluid

retention, headache and effects on the thyroid. 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.

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EU Indication of danger: Irritant

Toxic to Reproduction; Category 3

**EU Hazard Symbols:** 



Note:

**EU Risk Phrases:** 

R43 - May cause sensitization by skin contact.

R62 - Possible risk of impaired fertility.

R63 - Possible risk of harm to the unborn child.

Australian Hazard Classification (NOHSC):

Hazardous Substance. Non-Dangerous Goods.

(NORSC):

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.

### 4. FIRST AID MEASURES

Eye Contact: Flush eye(s) immediately with plenty of water. If irritation occurs or persists, get medical

attention.

**Skin Contact:** Remove clothing and wash affected skin with soap and water. If irritation occurs or persists,

get medical attention.

**Ingestion:** Get medical attention. Do not induce vomiting unless directed by medical personnel. Never

give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

# 5. FIRE FIGHTING MEASURES

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

Hazardous Combustion Products: No data available.

Fire Fighting Procedures: During all fire fighting activities, wear appropriate protective equipment, including self-

contained breathing apparatus.

Fire / Explosion Hazards: Not available

# 6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spilled material by a method that

controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

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**Measures for Environmental** 

**Syringe: 0.2mg - 0.4mg)** 

**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 thoroughly after handling.

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

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Somatropin

Pfizer OEL TWA-8 Hr: 10ug/m³, Sensitizer

The exposure limit(s) listed for solid components are only relevant if dust or mist may be generated.

**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.

**Personal Protective Equipment:** 

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 diluentColor:WhiteMolecular Formula:MixtureMolecular Weight:Mixture

# 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of use.

Conditions to Avoid: No data available Incompatible Materials: None identified

### 11. TOXICOLOGICAL INFORMATION

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

ingredients.

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

#### **Mannitol**

Rat Oral LD 50 13500 mg/kg Mouse Oral LD 50 22 g/kg

#### Glycine

Rat Oral LD 50 7930 mg/kg 4920 mg/kg Mouse Oral LD 50

#### Somatropin

Rat Oral LD50 242 mg/kg Rat Dermal LD50 1100 mg/kg Rat Inhalation LC50 1h 710 mg/m<sup>3</sup> LD50 Mouse Oral 828 mg/kg Mouse Intraperitoneal LD50 828 mg/kg

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

#### Sodium phosphate, dibasic

Eye Irritation Rabbit Skin Irritation Rabbit Mild

#### Somatropin

Skin Irritation Rabbit Negative Not specified Guinea Pig Positive

Antigenicity- Active anaphylaxis Guinea Pig Positive

Antigenicity- Passive cutaneous anaphylaxis Guinea Pig Positive

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

### Somatropin

1 Month(s) Rat Intramuscular 0.63 mg/kg/day **NOAEL** Mammary gland

3 Month(s) Rat Subcutaneous 0.37 mg/kg/day LOAEL Liver, Adrenal gland, Kidney Mammary gland, Blood 3 Month(s) Monkey Subcutaneous 0.125 mg/kg/day LOAEL

52 Week(s) Monkey 0.63 mg/kg/day **NOAEL** Adipose tissue, Mammary gland, Reproductive system Subcutaneous

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

# Somatropin

Embryo / Fetal Development Rat Subcutaneous 3.3 mg/kg/day **NOAEL** Not teratogenic **NOAEL** Embryo / Fetal Development Rabbit Intramuscular 0.3 mg/kg/day Not Teratogenic Rat

Embryo / Fetal Development Subcutaneous 3.3 mg/kg/day LOAEL Fetotoxicity

0.3 mg/kg/day NOAEL Reproductive & Fertility Rat Subcutaneous Fertility

Peri-/Postnatal Development Subcutaneous 3.3 mg/kg/day NOAEL No effects at maximum dose Rat

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

#### Somatropin

**Bacterial Mutagenicity (Ames)** Salmonella , E. coli Negative In Vitro Mammalian Cell Mutagenicity Mouse Lymphoma Negative In Vivo Chromosome Aberration Rat Bone Marrow Negative In Vitro Chromosome Aberration **Human Lymphocytes** Negative

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

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# 12. ECOLOGICAL INFORMATION

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

avoided.

### 13. DISPOSAL CONSIDERATIONS

**Disposal Procedures:** Dispose of waste in accordance with all applicable laws and regulations.

### 14. TRANSPORT INFORMATION

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

# 15. REGULATORY INFORMATION

EU Symbol: Xn
EU Indication of danger: Irritant

Toxic to Reproduction; Category 3

**EU Risk Phrases:** 

R43 - May cause sensitization by skin contact. R62 - Possible risk of impaired fertility. R63 - Possible risk of harm to the unborn child.

**EU Safety Phrases:** 

S36/37 - Wear suitable protective clothing and gloves.

S53 - Avoid exposure - obtain special instructions before use.

### **OSHA Label:**

**DANGER** 

Toxic if swallowed.

May cause allergic skin reaction.

Suspected of damaging fertility or the unborn child.

#### Canada - WHMIS: Classifications

# WHMIS hazard class:

D1b toxic materials
D2a very toxic materials

D2b toxic materials

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**Somatropin** 

Standard for the Uniform Scheduling Schedule 4

for Drugs and Poisons:

EU EINECS List 235-735-8

Mannitol

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS List

Present
200-711-8

**Glycine** 

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS List

Present
200-272-2

Sodium phosphate, dibasic

CERCLA/SARA Hazardous Substances = 2270 kg final RQ and their Reportable Quantities: = 5000 lb final RQ

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS List

Present
231-448-7

Water

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS List

231-791-2

Sodium phosphate, monobasic

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS List

231-449-2

### 16. OTHER INFORMATION

**Reasons for Revision:** Updated Section 3 - Hazard Identification. Updated Section 7 - Handling and Storage. Added

Pfizer OEL (Section 8). Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information. Updated Section 14 - Transport Information. Updated

Section 15 - Regulatory Information.

Prepared by: Toxicology and Hazard Communication

Pfizer Global Environment, Health, and Safety

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**End of Safety Data Sheet**