

Revision date: 29-May-2015 Version: 3.0 Page 1 of 10

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

**Product Identifier** 

Material Name: Somatropin For Injection (Single Dose Syringe: 0.6mg - 2.0mg)

Trade Name: Genotropin Miniquick®; Genotonorm Miniquick; Genotropin MQ

Synonyms: Human Growth Hormone; HGH; Somatotropin

Chemical Family: Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

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

**Details of the Supplier of the Safety Data Sheet** 

Pfizer Inc Pfizer Pharmaceuticals Group 235 East 42nd Street New York, New York 10017 1-800-879-3477

Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300
Contact E-Mail: pfizer-MSDS@pfizer.com

Pfizer Ltd Ramsgate Road Sandwich, Kent CT13 9NJ United Kingdom

United Kingdom +00 44 (0)1304 616161

Emergency telephone number:

International CHEMTREC (24 hours): +1-703-527-3887

### 2. HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

**GHS - Classification** 

Acute Oral Toxicity: Category 4
Acute Dermal Toxicity: Category 4

Acute Toxicity - Dusts and Mists: Category 4

Skin Sensitization: Category 1 Reproductive Toxicity: Category 2

**US OSHA Specific - Classification** 

Physical Hazard: Combustible Dust

**EU Classification:** 

EU Indication of danger: Harmful

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.

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

**Label Elements** 

Signal Word: Warning

D704450

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# 2. HAZARDS IDENTIFICATION

Hazard Statements: H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.

May form combustible dust concentrations in air

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

Precautionary Statements: P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301+ P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel

ınwell

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

P308 + P313 - IF exposed or concerned: Get medical attention/advice P312 - Call a POISON CENTRE/doctor/physician if you feel unwell

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/container in accordance with all local and national regulations



Other Hazards
Australian Hazard Classification
(NOHSC):

No data available

Hazardous Substance. Non-Dangerous Goods.

Note:

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### **Hazardous**

Ingredient	CAS Number	EU	<b>EU Classification</b>	GHS	%
		EINECS/ELINCS		Classification	
		List			

2704450

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3. COMPOSITION / INFORMATION ON INGREDIENTS						
Somatropin	12629-01-5	235-735-8	Xn;R20/21/22	Acute Tox. 3	30 - 59	
			Repr.Cat.3;R62-63	(H301)		
			Xi;R43	Acute Tox. 4 (H312,		
				H332)		
				Skin Sens. 1		
				(H317)		
				Repr. 2 (H361fd)		

Ingredient	CAS Number	EU	EU Classification	GHS	%
		EINECS/ELINCS		Classification	
		List			
Mannitol	69-65-8	200-711-8	Not Listed	Not Listed	*
Glycine	56-40-6	200-272-2	Not Listed	Not Listed	*
Sodium phosphate, monobasic	7558-80-7	231-449-2	Not Listed	Not Listed	*
Sodium phosphate, dibasic	7558-79-4	231-448-7	Not Listed	Not Listed	*
Water	7732-18-5	231-791-2	Not Listed	Not Listed	*

Additional Information: \* Proprietary

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

safety.

In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has

been withheld as a trade secret.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

# 4. FIRST AID MEASURES

**Description of 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.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of

Exposure:

No data available

Medical Conditions
Aggravated by Exposure:

None known

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

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**Hazardous Combustion** 

No data available

Products:

Not available Fire / Explosion Hazards:

### Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

#### **Environmental Precautions**

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

#### Methods and Material for Containment and Cleaning Up

Measures for Cleaning /

Contain the source of spill if it is safe to do so. Collect spilled material by a method that Collecting: controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

**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

### **Precautions for Safe 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. 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.

### Conditions for Safe Storage, Including any Incompatibilities

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

**Incompatible Materials:** None identified

Pharmaceutical drug product Specific end use(s):

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control Parameters**

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

Somatropin

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

**Glycine** 

Latvia OEL - TWA 5 mg/m<sup>3</sup>

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

**Exposure Controls** 

**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** 

Refer to applicable national standards and regulations in the selection and use of personal

protective equipment (PPE). **Equipment:** 

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

processing operations.

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

Impervious protective clothing is recommended if skin contact with drug product is possible and Skin:

for bulk processing operations.

If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate Respiratory protection:

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

No data available. No data available. Odor: **Odor Threshold:** 

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

**Solvent Solubility:** No data available Water Solubility: No data available No data available. pH: **Melting/Freezing Point (°C):** No data available No data available. **Boiling Point (°C):** Partition Coefficient: (Method, pH, Endpoint, Value)

Water

No data available

Mannitol

No data available

**Glycine** 

No data available

Sodium phosphate, dibasic

No data available

Sodium phosphate, monobasic

No data available Somatropin No data available

No data available. Decomposition Temperature (°C):

**Evaporation Rate (Gram/s):** No data available No data available Vapor Pressure (kPa): Vapor Density (g/ml): No data available No data available **Relative Density:** Viscosity: No data available

Flammablity:

No data available Autoignition Temperature (Solid) (°C): Flammability (Solids): No data available Flash Point (Liquid) (°C): No data available Upper Explosive Limits (Liquid) (% by Vol.): No data available Lower Explosive Limits (Liquid) (% by Vol.): No data available

### 10. STABILITY AND REACTIVITY

No data available Reactivity:

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

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# 10. STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions** 

Oxidizing Properties: No data available

Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions.

Incompatible Materials: None identified Hazardous Decomposition No data available

**Products:** 

# 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

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

ingredients.

**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 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

#### 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 Mouse Oral LD 50 4920mg/kg

#### Somatropin

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

Mouse Intraperitoneal LD50 828mg/kg

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

#### 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 3 Month(s) Monkey Subcutaneous 0.125 mg/kg/day LOAEL Mammary gland, Blood

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

PZ01159

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# 11. TOXICOLOGICAL INFORMATION

### 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 Embryo / Fetal Development Rabbit Intramuscular 0.3 mg/kg/day NOAEL Not Teratogenic

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

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

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

### 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.

### 12. ECOLOGICAL INFORMATION

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

avoided.

**Toxicity:** No data available

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

# 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: 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

The following refers to all modes of transportation unless specified below.

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

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# **15. REGULATORY INFORMATION**

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

# Canada - WHMIS: Classifications

# WHMIS hazard class:

D1b toxic materials D2a very toxic materials D2b toxic materials



# **Mannitol**

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
REACH - Annex IV - Exemptions from the	Present
obligations of Register:	
EU EINECS/ELINCS List	200-711-8

### Somatropin

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Standard for the Uniform Scheduling	Schedule 4
for Drugs and Poisons:	

**EU EINECS/ELINCS List** 235-735-8

## **Glycine**

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	200-272-2

### Sodium phosphate, monobasic

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present

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# 15. REGULATORY INFORMATION

**EU EINECS/ELINCS List** 231-449-2

Sodium phosphate, dibasic

**CERCLA/SARA 313 Emission reporting** Not Listed **CERCLA/SARA Hazardous Substances** 5000 lb and their Reportable Quantities: 2270 kg **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present **EU EINECS/ELINCS List** 231-448-7

Water

**CERCLA/SARA 313 Emission reporting** Not Listed Not Listed California Proposition 65 Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present **REACH - Annex IV - Exemptions from the** Present obligations of Register:

**EU EINECS/ELINCS List** 231-791-2

# 16. OTHER INFORMATION

### Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Acute toxicity, oral-Cat.3; H301 - Toxic if swallowed

Acute toxicity, dermal-Cat.4; H312 - Harmful in contact with skin

Acute toxicity, inhalation-Cat.4; H332 - Harmful if inhaled

Sensitization, skin-Cat.1; H317 - May cause an allergic skin reaction

Reproductive toxicity-Cat.2; H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.

Toxic to Reproduction: Category 3

Xi - Irritant Xn - Harmful

R22 - Harmful if swallowed.

R43 - May cause sensitization by skin contact.

R62 - Possible risk of impaired fertility.

R63 - Possible risk of harm to the unborn child.

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

Pfizer proprietary drug development information. Publicly available toxicity information. **Data Sources:** 

Reasons for Revision: Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Updated Section 3 - Composition / Information on Ingredients. Updated Section 2 - Hazard Identification. Updated Section 11 - Toxicology Information. Updated Section 7 - Handling and

Storage.

**Revision date:** 29-May-2015

Product Stewardship Hazard Communication

Pfizer Global Environment, Health, and Safety Operations Prepared by:

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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** 

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