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

Pfizer Inc Pfizer Ltd,
Pfizer Pharmaceuticals Group Kent
235 East 42nd Street CT13 9NJ
New York, New York 10017 United Kingdom
1-212-573-2222 +00 44 (0)1304 616161

Emergency telephone number: Emergency telephone number:

Material Name: Lymphocyte immune globulin, anti-thymocyte globulin (equine) sterile

solution

Trade Name: Atgam Sterile Solution

Chemical Family: Mixture

Intended Use: Pharmaceutical product used as immunosuppressive agent

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

### **Hazardous**

Ingredient	CAS Number	<b>EU EINECS List</b>	%
Lymphocyte immune globulin, anti-thymocyte globulin	Not assigned	Not listed	5
(equine)			
Hydrochloric Acid	7647-01-0	231-595-7	**
Sodium hydroxide	1310-73-2	215-185-5	**

Ingredient	CAS Number	<b>EU EINECS List</b>	%
Glycine	56-40-6	200-272-2	*
Water for Injection	7732-18-5	231-791-2	*

Additional Information: \* Proprietary

\*\* to adjust pH

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

safety.

## 3. HAZARDS IDENTIFICATION

**Appearance:** Pink or brown sterile solution

Signal Word: DANGER

Statement of Hazard: Suspected of damaging the unborn child. Causes damage to immune system.

Additional Hazard Information:

**Short Term:** May cause irritation: skin, eye (based on components) May produce allergic reactions after

systemic administration.

Known Clinical Effects: Adverse effects most commonly reported in clinical use include fever, chills, skin reaction,

blood cell changes, systemic toxicity. Serious allergic reactions, including anaphylaxis, have

been reported.

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

**EU Hazard Symbols:** 

Material Name: Lymphocyte immune globulin, anti-thymocyte

globulin (equine) sterile solution

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**EU Risk Phrases:** 

R63 - Possible risk of harm to the unborn child.

**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

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workplace.

## 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.

# 5. FIRE FIGHTING MEASURES

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

Hazardous Combustion Products: Not applicable

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

contained breathing apparatus.

Fire / Explosion Hazards: Not applicable

## 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 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

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Volcion

**General Handling:** Prevent inhalation, contact with eye, skin and clothing. When handling, use appropriate

personal protective equipment (see Section 8). Use adequate ventilation. Wash thoroughly

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after handling.

Storage Conditions: Store in a cool, dry place away from light. Keep refrigerated.

Storage Temperature: 2 - 8 °C

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Hydrochloric Acid** 

ACGIH Ceiling Threshold Limit: = 2 ppm Ceiling
Australia PEAK = 5 ppm Peak
= 7.5 mg/m³ Peak

Sodium hydroxide

OSHA - Final PELS - TWAs: 2 mg/m<sup>3</sup>

ACGIH Ceiling Threshold Limit: = 2 mg/m³ Ceiling Australia PEAK = 2 mg/m³ Peak

Analytical Method: No method available .

**Engineering Controls:** Engineering controls should be used as the primary means to control exposures.

**Personal Protective Equipment:** 

**Hands:** Wear impervious gloves if skin contact is possible.

**Eyes:** Safety glasses or goggles

Skin: Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and

laboratory areas.

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:Sterile solutionColor:Pink to brownMolecular Formula:MixtureMolecular Weight:Mixture

Solubility: Soluble: Water

# 10. STABILITY AND REACTIVITY

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

Conditions to Avoid: Exposure to light.

**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 individual

ingredients.

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

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**Glycine** 

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

Sodium hydroxide

Mouse IP LD50 40 mg/kg

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

Sodium hydroxide

Eye Irritation Rabbit Severe Skin Irritation Rabbit Severe

**Hydrochloric Acid** 

Skin Irritation Severe Eye Irritation Severe

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

Lymphocyte immune globulin, anti-thymocyte globulin (equine)

14 Day(s) Monkey Intravenous 40 mg/kg/day NOAEL No effects at maximum dose

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

Lymphocyte immune globulin, anti-thymocyte globulin (equine)

Embryo / Fetal Development Monkey Intravenous 10 mg/kg/day NOAEL Fetotoxicity, Not Teratogenic Reproductive & Fertility Monkey Intravenous 40 mg/kg/day NOAEL No effects at maximum dose

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

Lymphocyte immune globulin, anti-thymocyte globulin (equine)

Bacterial Mutagenicity (Ames) Salmonella Negative

In Vitro Chromosome Aberration Chinese Hamster Ovary (CHO) cells 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.

See below

**Hydrochloric Acid** 

IARC: Group 3

12. ECOLOGICAL INFORMATION

**Environmental Overview:** Environmental properties of the formulation have not been thoroughly 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.

# 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. S53 - Avoid exposure - obtain special instructions before use.

## **OSHA Label:**

**DANGER** 

Suspected of damaging the unborn child. Causes damage to immune system.

## Canada - WHMIS: Classifications

### WHMIS hazard class:

Class D, Division 2, Subdivision A



## **Hydrochloric Acid**

**CERCLA/SARA 313 Emission reporting** 

CERCLA/SARA Hazardous Substances and their Reportable Quantities:

CERCLA/SARA - Section 302 Extremely Hazardous

**TPQs** 

**CERCLA/SARA - Section 302 Extremely Hazardous** 

**Substances EPCRA RQs** 

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

Australia (AICS):

Standard for the Uniform Scheduling

for Drugs and Poisons:

**EU EINECS List** 

= 1.0 % de minimis concentration acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size

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= 2270 kg final RQ

= 5000 lb final RQ

= 500 lb TPQ gas only

= 5000 lb EPCRA RQ gas only

T Present Schedule 5 Schedule 6 231-595-7

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Sodium hydroxide

CERCLA/SARA Hazardous Substances = 1000 lb final RQ and their Reportable Quantities: = 454 kg final RQ

Inventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentStandard for the Uniform SchedulingSchedule 5for Drugs and Poisons:Schedule 6EU EINECS List215-185-5

**Glycine** 

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

Australia (AICS):

Present

EU EINECS List

200-272-2

Water for Injection

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

Australia (AICS):

EU EINECS List

Present
231-791-2

# 16. OTHER INFORMATION

Reasons for Revision: Corrected Section 1.

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

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**End of Safety Data Sheet**