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

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Material Name: R-Gene 10

Trade Name: R-Gene

Synonyms: 10% Arginine Hydrochloride Injection, USP

Chemical Family: Mixture

Intended Use: Pharmaceutical product used as HGH/Immune system stimulator

2. HAZARDS IDENTIFICATION

Appearance: Solution

Statement of Hazard: Non-hazardous in accordance with international standards for workplace safety.

Additional Hazard Information:

Short Term: May cause eye and skin irritation (based on components) . Not acutely toxic (based on animal

data).

Known Clinical Effects: The most common adverse effects reported with clinical use were diarrhea, nausea, rash, and

vomiting. Individuals sensitive to this material or other materials in its chemical class may

develop allergic reactions.

EU Indication of danger: Not classified

Australian Hazard Classification

(NOHSC):

Non-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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

a_a. a • a •				
Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%

PZ00026

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 3. COMPOSITION/INFORMATION ON INGREDIENTS

 Hydrochloric Acid
 7647-01-0
 231-595-7
 C;R35 T;R23
 **

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Water for Injection	7732-18-5	231-791-2	Not Listed	*
Arginine Hydrochloride	1119-34-2	214-275-1	Not Listed	10

Additional Information: * Proprietary

** to adjust pH

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: 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.

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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: Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate

ventilation. 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

emissions of this material to the atmosphere should be controlled with dust collector 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.

Hydrochloric Acid

ACGIH Ceiling Threshold Limit: 2 ppm **Australia PEAK** 5 ppm 7.5 mg/m³ **Austria OEL - MAKs** 5 ppm 8 mg/m³ **Belgium OEL - TWA** 5 ppm 8 mg/m³ 8.0 mg/m³ **Bulgaria OEL - TWA** Cyprus OEL - TWA 5 ppm 8 mg/m³ Czech Republic OEL - TWA 8 mg/m^3

Estonia OEL - TWA 8 mg/m 5 ppm

8 mg/m³ **Germany - TRGS 900 - TWAs** 2 ppm

Germany (DFG) - MAK 2 ppm

3.0 mg/m³

Greece OEL - TWA 5 ppm 7 mg/m³ 8 mg/m³

 Hungary OEL - TWA
 8 mg/m³

 Ireland OEL - TWAs
 5 ppm

 8 mg/m³
 8 mg/m³

 Italy OEL - TWA
 5 ppm

Japan - OELs - Ceilings 5 ppm 7.5 mg/m³

Latvia OEL - TWA 5 ppm 8 mg/m³

Lithuania OEL - TWA 5 ppm 8 mg/m³

Luxembourg OEL - TWA 5 ppm 8 mg/m³

Malta OEL - TWA 5 ppm 8 mg/m³

Netherlands OEL - TWA 8 mg/m³

PZ00026

8 mg/m³

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

 Poland OEL - TWA
 5 mg/m³

 Romania OEL - TWA
 5 ppm

 8 mg/m³
 5 ppm

 Slovakia OEL - TWA
 5 ppm

 8.0 mg/m³
 5 ppm

 8 mg/m³
 8 mg/m³

Spain OEL - TWA 5 ppm 7.6 mg/m³

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

laboratory use, handle in a lab fume hood. General room ventilation is adequate unless the

process generates dust, mist or fumes.

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

Skin: Not required for the normal use of this product. Wear protective clothing when working with

large quantities.

Respiratory protection: Whenever excessive air contamination (dust, mist, vapor) is generated, respiratory protection,

with appropriate protection factors, should be used to minimize exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solution Color: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

pH: 5.0-6.5

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: None known

Incompatible Materials: As a precautionary measure, keep away from strong oxidizers

11. TOXICOLOGICAL INFORMATION

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

the formulation.

Product Level Toxicity Data

Reproduction & Developmental Toxicity

Study Type	Species	Route	Dosage (mg/kg/day)	End Point	Effect(s)
Embryo/Fetal Development	Rat	Oral	>10 grams	NOAEL	Not teratogenic
Embryo/Fetal Development	Mouse	Oral	>10 grams	NOAEL	Not teratogenic

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11. TOXICOLOGICAL INFORMATION

Reproductive & Fertility >10 grams NOAEL Fertility Oral Reproductive & Fertility Mouse Oral >10 grams NOAEL Fertility

Ingredients:

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

Arginine Hydrochloride

Oral LD50 12 g/kg

Sub-tenon injection (eye) LD50 3793 mg/kg

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

Hydrochloric Acid Skin Irritation Severe Eye Irritation Severe

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

See below

Hydrochloric Acid

IARC: Group 3 (Not Classifiable)

12. ECOLOGICAL INFORMATION

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

should be avoided.

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.

15. REGULATORY INFORMATION

Not classified **EU** Indication of danger:

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15. REGULATORY INFORMATION

OSHA Label:

Non-hazardous in accordance with international standards for workplace safety.

Canada - WHMIS: Classifications

WHMIS hazard class:

None required

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Ingredients:

Water for Injection

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

Hydrochloric Acid

CERCLA/SARA 313 Emission reporting	1.0 %
CERCLA/SARA Hazardous Substances	5000 lb
and their Reportable Quantities:	2270 kg
CERCLA/SARA - Section 302 Extremely Hazardous	500 lb

TPQs

CERCLA/SARA - Section 302 Extremely Hazardous 5000 lb

Substances EPCRA RQs

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

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

EU EINECS/ELINCS List

Present
Schedule 5
Schedule 6
231-595-7

Arginine Hydrochloride

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

Australia (AICS):

Present

EU EINECS/ELINCS List

214-275-1

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R23 - Toxic by inhalation.

R35 - Causes severe burns.

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

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Reasons for Revision: Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on

Ingredients. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure

Controls / Personal Protection. Updated Section 4 - First Aid Measures.

Prepared by: Product Stewardship 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