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IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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Material Name: Exemestane Tablets

Trade Name: Aromasin Chemical Family: Mixture

Intended Use: Pharmaceutical product used as Antineoplastic

2. HAZARDS IDENTIFICATION

Appearance: Off-white to Gray Tablets

Signal Word: WARNING

Statement of Hazard: Suspected of damaging fertility.

Suspected of damaging the unborn child.

Additional Hazard Information:

Long Term:

Short Term: May cause minimal eye irritation (based on animal data). Active ingredient is not a skin irritant

. Active ingredient is not a skin sensitizer . Not acutely toxic (based on animal data) . Animal studies have shown a potential to cause adverse effects on the fetus. Repeat-dose studies in animals have shown a potential to cause adverse effects on reproductive system.

Known Clinical Effects: Adverse effects associated with therapeutic use include hot flashes, nausea, fatigue,

increased sweating, increased appetite, asthenia, and fever.

EU Classification

EU Indication of danger: Toxic to reproduction, Category 2

EU Hazard Symbols:

EU Risk Phrases:

R60 - May impair fertility.

R61 - May cause harm to the unborn child.

Hazardous Substance. Non-Hazardous Substance.

Australian Hazard Classification (NOHSC):

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2. HAZARDS IDENTIFICATION

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

| Ingredient | CAS Number | EU EINECS/ELINCS List | EU Classification | % |
|----------------------------|-------------|------------------------------|--------------------------|----|
| Exemestane | 107868-30-4 | Not Listed | Repr.Cat.2;R60-61 | 25 |
| Silica colloidal, Ph. Eur. | 112945-52-5 | Not Listed | Not Listed | * |
| Magnesium stearate | 557-04-0 | 209-150-3 | Not Listed | * |
| Microcrystalline cellulose | 9004-34-6 | 232-674-9 | Not Listed | * |
| Titanium dioxide | 13463-67-7 | 236-675-5 | Not Listed | * |
| Sucrose | 57-50-1 | 200-334-9 | Not Listed | * |

| Ingredient | CAS Number | EU EINECS/ELINCS List | EU Classification | % |
|--------------------------------|--------------|------------------------------|-------------------|---|
| Crospovidone | 9003-39-8 | Not Listed | Not Listed | * |
| Hydroxypropyl methylcelluslose | 9004-65-3 | Not Listed | Not Listed | * |
| Mannitol | 69-65-8 | 200-711-8 | Not Listed | * |
| Methylparaben | 99-76-3 | 202-785-7 | Not Listed | * |
| Macrogol 6000 | Not assigned | Not Listed | Not Listed | * |
| Polysorbate 80 | 9005-65-6 | Not Listed | Not Listed | * |
| Polyvinyl alcohol | 9002-89-5 | Not Listed | Not Listed | * |
| Sodium starch glycolate | 9063-38-1 | Not Listed | Not Listed | * |
| Magnesium carbonate | 39409-82-0 | Not Listed | Not Listed | * |
| Simethicone emulsion | 67762-90-7 | Not Listed | 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.

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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 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.

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. If tablets or capsules are crushed and/or broken,

avoid breathing dust and avoid contact with eyes, skin, and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Refer to Section 12 - Ecological Information, for information on potential effects on the environment. 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.

Storage Temperature: Store at 25°C (77°F)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Exemestane

Pfizer OEL TWA-8 Hr: 8 μg/m³

Magnesium stearate

ACGIH Threshold Limit Value (TWA)

Australia TWA

Belgium OEL - TWA

Listed

Ireland OEL - TWA

Listed

Lithuania OEL - TWA

Listed

Portugal OEL - TWA

Spain OEL - TWA

Listed

Listed

Listed

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Sweden OEL - TWAs Listed

Microcrystalline cellulose

ACGIH Threshold Limit Value (TWA)

Australia TWA

Belgium OEL - TWA

Estonia OEL - TWA

Listed

France OEL - TWA

Listed

OSHA - Final PELS - TWAs: 15 mg/m³ total

5 mg/m³

Portugal OEL - TWA Listed
Romania OEL - TWA Listed
Spain OEL - TWA Listed

Titanium dioxide

ACGIH Threshold Limit Value (TWA) 10 mg/m³ TWA **Australia TWA** 10 mg/m³ Austria OEL - MAKs Listed **Belgium OEL - TWA** Listed Listed **Bulgaria OEL - TWA Denmark OEL - TWA** Listed **Estonia OEL - TWA** Listed France OEL - TWA Listed **Greece OEL - TWA** Listed **Ireland OEL - TWAs** Listed Latvia OEL - TWA Listed Lithuania OEL - TWA Listed **OSHA - Final PELS - TWAs:** 15 mg/m3 total

Poland OEL - TWA Listed
Portugal OEL - TWA Listed
Romania OEL - TWA Listed
Spain OEL - TWA Listed
Sweden OEL - TWAs Listed

Sucrose

10 mg/m³ TWA **ACGIH Threshold Limit Value (TWA)** 10 mg/m³ Australia TWA Listed **Belgium OEL - TWA Bulgaria OEL - TWA** Listed Estonia OEL - TWA Listed France OEL - TWA Listed **Ireland OEL - TWAs** Listed Latvia OEL - TWA Listed Lithuania OEL - TWA Listed

OSHA - Final PELS - TWAs: 15 mg/m³ total

5 mg/m³

Portugal OEL - TWA Listed
Spain OEL - TWA Listed

Magnesium carbonate

Estonia OEL - TWA Listed

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Analytical Method: Analytical method available for exemestane. Contact Pfizer Inc for further information.

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

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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: Tablets Color: Off-white to gray

Molecular Formula: Mixture Molecular Weight: Mixture

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: There are no data for this formulation. The remaining information describes the potential

hazards of the individual ingredients.

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

Exemestane

Rat Oral LD 50 > 5000 mg/kg Mouse Oral LD 50 > 3000 mg/kg

Rat Intraperitoneal LD 50 404-488 mg/kg Mouse Intraperitoneal LD 50 396-419 mg/kg

Magnesium stearate

Rat Oral LD50 > 2000 mg/kg Rat Inhalation LC50 > 2000 mg/m³

Mannitol

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11. TOXICOLOGICAL INFORMATION

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

Microcrystalline cellulose

Rat Oral LD50 > 5000 mg/kg Rabbit Dermal LD50 > 2000 mg/kg

Methylparaben

Mouse Oral LD50 > 8000 mg/kg Rat Oral LD50 2280 mg/kg

Polysorbate 80

Rat Oral LD50 25 g/kg

Titanium dioxide

Rat Oral LD50 > 7500 mg/kg Rat Subcutaneous LD 50 50 mg/kg

Sucrose

Rat Oral LD50 29.7 g/kg

Hydroxypropyl methylcelluslose

Rat Oral LD50 > 10,000 mg/kg

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

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

Exemestane

Eye Irritation Rabbit Minimal
Skin Irritation Rabbit Non-irritating
Skin Separation M& K. Cuinea Rig

Skin Sensitization - M & K Guinea Pig Negative

Microcrystalline cellulose

Skin Irritation Rabbit Non-irritating Eye Irritation Rabbit Non-irritating

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

Exemestane

4 Week(s) Rat Oral 150 mg/kg/day NOAEL None identified

4 Week(s) Rat Oral 1000 mg/kg/day LOAEL Liver, Thymus, Spleen, Reproductive system

4 Week(s) Dog Oral 30 mg/kg/day LOAEL Reproductive system Oral 13 Week(s) Mouse 30 mg/kg/day LOAEL Reproductive system 26 Week(s) Rat Oral 30 mg/kg/day LOAEL Female reproductive system

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

Exemestane

Reproductive & Fertility-Males Rat Oral 500 mg/kg/day LOAEL Fertility Fertility and Embryonic Development Rat Oral 20 mg/kg/day LOAEL Fetotoxicity Fertility and Embryonic Development Rat Oral 215 mg/kg/day LOAEL Fertility, Fetotoxicity Embryo / Fetal Development Rat Oral 10 mg/kg/day LOAEL Developmental toxicity

Embryo / Fetal Development Rabbit Oral 30 mg/kg/day LOAEL Developmental toxicity

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11. TOXICOLOGICAL INFORMATION

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

Exemestane

Bacterial Mutagenicity (Ames) Salmonella , E. coli Negative
In Vitro Chromosome Aberration Human Lymphocytes Positive
In Vivo Chromosome Aberration Mouse Bone Marrow Negative
Unscheduled DNA Synthesis Rat Hepatocyte Negative

Mammalian Cell Mutagenicity Hamster Negative

Sucrose

Bacterial Mutagenicity (Ames) Salmonella Negative

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Exemestane

2 Year(s) Rat Oral 315 mg/kg/day NOAEL Not carcinogenic

2 Year(s) Mouse Oral 150 mg/kg/day LOAEL Tumors, Liver, Kidneys

Carcinogen Status: See below

Silica colloidal, Ph. Eur.

IARC: Group 3

Crospovidone

IARC: Group 3

Polyvinyl alcohol

IARC: Group 3

Titanium dioxide

Mobility, Persistence and

IARC: Group 3 (Not Classifiable)

12. ECOLOGICAL INFORMATION

Environmental Overview: In the environment, the active ingredient in this formulation is expected to remain in water or

migrate through the soil to groundwater Harmful effects to aquatic organisms could occur. The active ingredient in this formulation is water soluble and is expected to remain primarily in

Degradability: water

Bioaccumulation and Toxicity: Toxicity to wastewater treatment microorganisms may occur. See aquatic toxicity data, below.

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Exemestane

Green algae OECD EC-50 72 Hours 7.1 mg/L

Bacterial Inhibition: (Inoculum, Method, End Point, Result)

Exemestane

Nostoc sp. (Freshwater Cyanobacteria) MIC 9 Days 40 mg/L

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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

EU Symbol:

EU Indication of danger: Toxic to reproduction, Category 2

EU Risk Phrases:

R60 - May impair fertility.

R61 - May cause harm to the unborn child.

EU Safety Phrases:

S22 - Do not breathe dust.

S36/37 - Wear suitable protective clothing and gloves.

S53 - Avoid exposure - obtain special instructions before use. S57 - Use appropriate containment to avoid environmental contamination.

OSHA Label:

WARNING

Suspected of damaging fertility.

Suspected of damaging the unborn child.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A



Exemestane

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| 15. REGULATORY INFORMATION | |
|--|------------|
| Standard for the Uniform Scheduling for Drugs and Poisons: | Schedule 4 |
| Silica colloidal, Ph. Eur. | |
| Australia (AICS): | Listed |
| Additional (Alloo). | 210.00 |
| Crospovidone | |
| Inventory - United States TSCA - Sect. 8(b) | Listed |
| Australia (AICS): | Listed |
| Hydroxypropyl methylcellusiose | |
| Inventory - United States TSCA - Sect. 8(b) | Listed |
| Australia (AICS): | Listed |
| Standard for the Uniform Scheduling | Schedule 4 |
| for Drugs and Poisons: | |
| Magnesium stearate | |
| Inventory - United States TSCA - Sect. 8(b) | Listed |
| Australia (AICS): | Listed |
| EU EINECS/ELINCS List | 209-150-3 |
| ES EMESS/EEMSS EIST | 250 100 0 |
| Mannitol | |
| Inventory - United States TSCA - Sect. 8(b) | Listed |
| Australia (AICS): | Listed |
| REACH - Annex IV - Exemptions from the | Present |
| obligations of Register: | 000 744 0 |
| EU EINECS/ELINCS List | 200-711-8 |
| Microcrystalline cellulose | |
| Inventory - United States TSCA - Sect. 8(b) | Listed |
| Australia (AICS): | Listed |
| EU EINECS/ELINCS List | 232-674-9 |
| Methylparaben | |
| Inventory - United States TSCA - Sect. 8(b) | Listed |
| Australia (AICS): | Listed |
| EU EINECS/ELINCS List | 202-785-7 |
| | |
| Polysorbate 80 | |
| Inventory - United States TSCA - Sect. 8(b) | Listed |
| Australia (AICS): | Listed |
| Polyvinyl alcohol | |
| Inventory - United States TSCA - Sect. 8(b) | Listed |
| Australia (AICS): | Listed |
| | |
| Titanium dioxide | |
| Inventory - United States TSCA - Sect. 8(b) | Listed |
| Australia (AICS): | Listed |
| EU EINECS/ELINCS List | 236-675-5 |
| Sodium starch glycolate | |
| Inventory - United States TSCA - Sect. 8(b) | Listed |
| inventory - orinted states 13CA - Sect. o(b) | LISIGU |

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15. REGULATORY INFORMATION

Australia (AICS): Listed

Sucrose

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

Australia (AICS):

REACH - Annex IV - Exemptions from the

Present

obligations of Register:

EU EINECS/ELINCS List 200-334-9

Magnesium carbonate

Australia (AICS): Listed

Simethicone emulsion

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

Australia (AICS):

Listed

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R60 - May impair fertility.

R61 - May cause 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 5 - Fire Fighting Measures. Updated Section 7 - Handling and Storage. Updated Section 15 - Regulatory

Information.

Prepared by: Product Stewardship Hazard Communications

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