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

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Material Name: Losartan Potassium Tablets

Trade Name: Not applicable Chemical Family: Mixture

Intended Use: Pharmaceutical product used as Antihypertensive

2. HAZARDS IDENTIFICATION

Appearance: White Tablets Signal Word: WARNING

Statement of Hazard: Suspected of damaging the unborn child.

Additional Hazard Information:

Short Term: Antihypertensive drug: has blood pressure-lowering properties

Long Term: Based on its pharmacologic properties and findings in animal studies, this compound may

cause the use of this drugs may cause fetal and neonatal toxicity, including low blood pressure and kidney failure, when they are taken during the second and third trimesters of pregnancy. Adverse effects associated with therapeutic use include dizziness, headache, lethargy,

changes in blood pressure, nausea, abdominal pain, hypersensitivity reactions, impaired renal

function, and potential liver toxicity in people with impaired liver function.

EU Indication of danger: Toxic to Reproduction: Category 3

EU Hazard Symbols:

Known Clinical Effects:



EU Risk Phrases:

Australian Hazard Classification

(NOHSC):

R63 - Possible risk of harm to the unborn child. 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 product or its ingredients 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.

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2. HAZARDS IDENTIFICATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Losartan potassium	124750-99-8	Not Listed	Repr.Cat.3;R63	25, 50, or 100
				mg***
Microcrystalline cellulose	9004-34-6	232-674-9	Not Listed	*
Magnesium stearate	557-04-0	209-150-3	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Lactose Monohydrate	64044-51-5	Not Listed	Not Listed	*
Starch, pregelatinized	9005-25-8	232-679-6	Not Listed	*
Hydroxypropyl cellulose	9004-64-2	Not Listed	Not Listed	*
Film coating	NOT ASSIGNED	Not Listed	Not Listed	*

Additional Information: * Proprietary

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

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention **Eye Contact:**

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.

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

contained breathing apparatus.

Not determined Fire / Explosion Hazards:

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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

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 hands and any exposed skin after removal of PPE. 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.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Microcrystalline cellulose

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

Starch, pregelatinized

ACGIH Threshold Limit Value (TWA) 10 mg/m³ TWA Australia TWA 10 mg/m³ **Belgium OEL - TWA** Listed **Bulgaria OEL - TWA** Listed Czech Republic OEL - TWA Listed **Greece OEL - TWA** Listed Ireland OEL - TWAs Listed

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

5 mg/m³

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Portugal OEL - TWA Listed
Spain OEL - TWA Listed

Magnesium stearate

ACGIH Threshold Limit Value (TWA) 10 mg/m³ TWA 10 mg/m³ **Australia TWA Belgium OEL - TWA** Listed **Ireland OEL - TWAs** Listed Lithuania OEL - TWA Listed Portugal OEL - TWA Listed Spain OEL - TWA Listed Sweden OEL - TWAs Listed

Losartan potassium

Pfizer Occupational Exposure OEB 3 (control exposure to the range of >10ug/m³ to < 100ug/m³)

Band (OEB):

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.

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: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Polymerization: Will not occur

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

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

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11. TOXICOLOGICAL INFORMATION

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

Lactose Monohydrate

29700 mg/kg Rat Oral LD 50

Magnesium stearate

Rat Oral LD50 > 2000 mg/kg Rat Inhalation LC50 $> 2000 \text{ mg/m}^3$

Microcrystalline cellulose

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

Losartan potassium

Oral Minimum Lethal Dose 1000 mg/kg Mouse Oral Minimum Lethal Dose 2000 mg/kg

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

at the highest dose used in the test.

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

Microcrystalline cellulose

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

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

Losartan potassium

Reproductive & Fertility Oral 150 mg/kg/day NOAEL Maternal toxicity Rat Embryo / Fetal Development Rat No route specified 10 mg/kg/day LOAEL Neonatal toxicity, Fetotoxicity

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

Lactose Monohydrate

In Vitro Bacterial Mutagenicity (Ames) Negative

Losartan potassium

Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative Mammalian Cell Mutagenicity Not specified Negative In Vitro Chromosome Aberration Not specified Negative In Vivo Chromosome Aberration Not specified Negative

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

Losartan potassium

105 Week(s) Rat Oral 270 mg/kg/day Maximally Tolerated Dose Not carcinogenic Oral 200 mg/kg/day Maximally Tolerated Dose 92 Week(s) Mouse Not carcinogenic

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: The environmental characteristics of this material have not been fully evaluated. 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

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

15. REGULATORY INFORMATION

EU Symbol:

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

EU Risk Phrases:

R63 - Possible risk of harm to the unborn child.

EU Safety Phrases:

S22 - Do not breathe dust.

S36/37 - Wear suitable protective clothing and gloves.

OSHA Label:

WARNING

Suspected of damaging the unborn child.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A



Microcrystalline cellulose

Inventory - United States TSCA - Sect. 8(b) Listed Listed Australia (AICS):

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15. REGULATORY INFORMATION

EU EINECS/ELINCS List 232-674-9

Lactose Monohydrate

Australia (AICS): Listed

Starch, pregelatinized

Inventory - United States TSCA - Sect. 8(b)ListedAustralia (AICS):ListedREACH - Annex IV - Exemptions from thePresent

obligations of Register:

EU EINECS/ELINCS List 232-679-6

Hydroxypropyl cellulose

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

Australia (AICS):

Listed

Magnesium stearate

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

Australia (AICS):

EU EINECS/ELINCS List

209-150-3

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R63 - Possible risk of harm to the unborn child.

Data Sources: Publicly available toxicity information. Safety data sheets for individual ingredients.

Reasons for Revision: Updated Section 11 - Toxicology 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
