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IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: Spironolactone Tablets

Trade Name: ALDACTONE: ALDACTONE-A: PRACTON: SPIRONOLACTONE-PFIZER

Chemical Family: Mixture

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

Intended Use: Pharmaceutical product for the treatment of high blood pressure (hypertension).

Pfizer Ltd

Ramsgate Road Sandwich, Kent

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

CT13 9NJ United Kingdom Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300

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+00 44 (0)1304 616161

Emergency telephone number:

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

HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS - Classification

Reproductive Toxicity: Category 1B Carcinogenicity: Category 2

Specific target organ systemic toxicity (repeated exposure): Category 2

Label Elements

Signal Word: Danger

Hazard Statements: H351 - Suspected of causing cancer

H373 - May cause damage to organs through prolonged or repeated exposure H360D - May

damage the unborn child

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 P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical attention/advice

P314 - Get medical attention/advice if you feel unwell

P405 - Store locked up

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

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Other Hazards An Occupational Exposure Value has been established for one or more of the ingredients (see

Section 8).

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	GHS Classification	%
		EINECS/ELINCS		
		List		
Maize starch	9005-25-8	232-679-6	Not Listed	*
Calcium sulfate, dihydrate	10101-41-4	Not Listed	Not Listed	*
Polyethylene glycol	25322-68-3	Not Listed	Not Listed	*
Spironolactone	52-01-7	200-133-6	Carc.2 (H351)	10-20%
			STOT RE.2 (H373)	
			Repr.1B (H360D)	
Magnesium stearate	557-04-0	209-150-3	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Povidone	9003-39-8	Not Listed	Not Listed	*
Peppermint flavor	8006-90-4	Not Listed	Not Listed	*
Hydroxypropyl methylcellulose	9004-65-3	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 CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of 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.

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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.

Most Important Symptoms and Effects, Both Acute and Delayed

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.

Medical Conditions

None known

Aggravated by Exposure:

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

Hazardous Combustion

Emits oxides of sulfur under combustion.

Products:

Fire / Explosion Hazards: Not applicable

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 /

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.

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. 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. 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.

Specific end use(s): Pharmaceutical drug product

10 mg/m³

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ACGIH Threshold Limit Value (TWA)

Control Parameters

Australia TWA

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

Maize starch

10 mg/m³ **Belgium OEL - TWA** 10 ma/m³ **Bulgaria OEL - TWA** 10.0 mg/m³ 4.0 mg/m³ Czech Republic OEL - TWA 10 mg/m³ **Greece OEL - TWA** 5 mg/m^3 Ireland OEL - TWAs 10 mg/m³ 4 mg/m^3 15 mg/m³ **OSHA - Final PELS - TWAs:** 10 mg/m³ Portugal OEL - TWA Slovakia OEL - TWA 4 mg/m^3 Spain OEL - TWA 10 mg/m³ **Switzerland OEL -TWAs** 3 mg/m^3

Calcium sulfate, dihydrate

ACGIH Threshold Limit Value (TWA) 10 mg/m³ 10 mg/m³ **Belgium OEL - TWA** 1.5 mg/m³ Germany (DFG) - MAK 4 mg/m^3 Portugal OEL - TWA 10 mg/m³ Spain OEL - TWA 10 mg/m³ **Switzerland OEL -TWAs** 3 mg/m³ 6 mg/m³ Vietnam OEL - TWAs

Polyethylene glycol

Austria OEL - MAKs 1000 mg/m³ 1000 mg/m³ Germany - TRGS 900 - TWAs

1000 mg/m³ average molecular weight 200-600 Germany (DFG) - MAK

1000 mg/m³ Slovakia OEL - TWA 1000 mg/m³ Slovenia OEL - TWA 1000 mg/m³ **Switzerland OEL -TWAs**

Spironolactone

Pfizer OEL TWA-8 Hr: 90 µg/m³, Skin

Magnesium stearate

ACGIH Threshold Limit Value (TWA) 10 mg/m³ Lithuania OEL - TWA 5 mg/m³ Sweden OEL - TWAs 5 mg/m³

Exposure Controls

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

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.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE). Contact your safety and health professional or safety equipment

protective equipment (PPE). Contact your safety and health professional or safety equipment supplier for assistance in selecting the correct protective clothing/equipment based on an assessment of the workplace conditions, other chemicals used or present in the workplace and

specific operational processes.

Hands: Impervious disposable gloves (e.g. Nitrile, etc.) (double recommended) if skin contact with drug

product is possible and for bulk processing operations. (Protective gloves must meet the

standards in accordance with EN374, ASTM F1001 or international equivalent.)

Eyes: Wear safety glasses or goggles if eye contact is possible. (Eye protection must meet the

standards in accordance with EN166, ANSI Z87.1 or international equivalent.)

Skin: Wear impervious protective clothing to prevent skin contact – consider use of disposable

clothing where appropriate. (Protective clothing must meet the standards in accordance with

EN13982, ANSI 103 or international equivalent.)

Respiratory protection: Under normal conditions of use, 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 (e.g. particulate respirator with a full mask, P3 filter). (Respirators must meet the standards in accordance with EN136, EN143, ASTM F2704-10 or international equivalent.)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:TabletColor:Yellow; Orange; PeachOdor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:

Water Solubility:

PH:

No data available

No data available

No data available.

No data available.

No data available.

Boiling Point (°C):

No data available.

Partition Coefficient: (Method, pH, Endpoint, Value)

Spironolactone

Predicted 7.4 Log D 3.12

Povidone
No data available
Maize starch
No data available
Magnesium stearate
No data available

Peppermint flavor
No data available

Hydroxypropyl methylcellulose

No data available

Calcium sulfate, dihydrate

No data available **Polyethylene glycol**No data available

Decomposition Temperature (°C): No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

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Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available
No data available
No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

Possibility of Hazardous Reactions

Oxidizing Properties: No data available Conditions to Avoid: None known

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

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.

Short Term: May be absorbed through the skin and cause systemic effects. Antihypertensive drug: has

blood pressure-lowering properties

Known Clinical Effects: Adverse effects seen in clinical use include gastrointestinal discomfort, dizziness, and

headache. Hypersensitivity reactions may also occur in susceptible individuals. Effects on

blood and blood-forming organs have also occurred.

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

Spironolactone

Rat Oral LD 50 4121 mg/kg

Mouse Oral LD 50 >1000mg/kg

Rabbit Oral LD 50 >1000mg/kg

Rat Intraperitoneal LD 50 786mg/kg

Povidone

Rat Oral LD50 100 g/kg

Magnesium stearate

Rat Oral LD50 > 2000 mg/kg Rat Inhalation LC50 > 2000 mg/m 3

Hydroxypropyl methylcellulose

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)

Spironolactone

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11. TOXICOLOGICAL INFORMATION

Skin Sensitization - GPMT Guinea Pig No effect

Polyethylene glycol

Eve Irritation Rabbit Mild Skin Irritation Rabbit Mild

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

Spironolactone

13 Week(s) Rat Oral 50 mg/kg LOAEL Blood

78 Week(s) Rat Oral 50 mg/kg/day Liver, Male reproductive system LOAEL

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

Spironolactone

Reproductive & Fertility Rat Oral 15 mg/kg/day NOAEL Fetotoxicity

Fertility Reproductive & Fertility Rat Intraperitoneal 100 mg/kg/day LOAEL

Embryo / Fetal Development Mouse Intraperitoneal 100 mg/kg/day LOAEL Maternal Toxicity

Embryo / Fetal Development Rat Oral 50 mg/kg/day LOAEL Fetotoxicity Embryo / Fetal Development Oral Rabbit 20 mg/kg/day LOAEL Fetotoxicity

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

Spironolactone

Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative Mammalian Cell Mutagenicity Negative without activation

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

Spironolactone

104 Week(s) Rat Oral LOAEL 10 mg/kg/day Benign tumors

52 Week(s) Non-human Primate Oral 20 mg/kg/day LOAEL Reproductive System

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

See below

Spironolactone

Group 3 (Not Classifiable) IARC:

Povidone

IARC: Group 3 (Not Classifiable)

12. ECOLOGICAL INFORMATION

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

thoroughly investigated.

No data available **Toxicity:**

Persistence and Degradability: No data available

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Bio-accumulative Potential:

Partition Coefficient: (Method, pH, Endpoint, Value)

Spironolactone

Predicted 7.4 Log D 3.12

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.

15. REGULATORY INFORMATION

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

Maize starch

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

REACH - Annex IV - Exemptions from the

Not Listed

Present

Present

obligations of Register:

EU EINECS/ELINCS List 232-679-6

Povidone

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Not Listed

Not Listed

Present

Present

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15. REGULATORY INFORMATION

EU EINECS/ELINCS List Not Listed

Peppermint flavor

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Hydroxypropyl methylcellulose

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Standard for the Uniform Scheduling

Schedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List Not Listed

Calcium sulfate, dihydrate

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Polyethylene glycol

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

EU EINECS/ELINCS List

Not Listed

Spironolactone

CERCLA/SARA 313 Emission reporting Not Listed

California Proposition 65 carcinogen 5/1/1997

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

Australia (AICS):

Standard for the Uniform Scheduling

Present
Schedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List 200-133-6

Magnesium stearate

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Not Listed

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Not Eisted

Not Listed

Not

16. OTHER INFORMATION

Text of CLP/GHS Classification abbreviations mentioned in Section 3

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Carcinogenicity-Cat.2; H351 - Suspected of causing cancer

Specific target organ toxicity, repeated exposure-Cat.2; H373 - May cause damage to organs through prolonged or repeated exposure

Reproductive toxicity-Cat.1B; H360D - May damage the unborn child

Data Sources: Pfizer proprietary drug development information. Safety data sheets for individual ingredients.

Reasons for Revision: Updated Section 2 - Hazard Identification. Updated Section 8 - Exposure Controls / Personal

Protection.

Revision date: 21-Jan-2017

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
