

Revision date: 03-Apr-2012 Version: 1.3 Page 1 of 8

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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Material Name: Spironolactone Tablets

Trade Name: ALDACTONE; ALDACTONE-A; PRACTON

Chemical Family: Mixture

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

2. HAZARDS IDENTIFICATION

Appearance: Yellow, Orange, Peach Tablet

Signal Word: WARNING

Statement of Hazard: Suspected of causing cancer.

May cause damage to: blood and blood-forming organs through prolonged or repeated

exposure.

Additional Hazard Information:

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.

EU Indication of danger: Toxic to Reproduction: Category 2

Carcinogenic: Category 3

Harmful

EU Hazard Symbols:



EU Risk Phrases:

R40 - Limited evidence of a carcinogenic effect

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R60 - May impair fertility.

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Material Name: Spironolactone Tablets Page 2 of 8
Revision date: 03-Apr-2012 Version: 1.3

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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	%
Spironolactone	52-01-7	200-133-6	Repr.Cat.3;R62	10-20%
			Carc.Cat3;R40	
			Xn;R48/22	
Maize starch	9005-25-8	232-679-6	Not Listed	*
Magnesium stearate	557-04-0	209-150-3	Not Listed	*
Polyethylene glycol	25322-68-3	Not Listed	Not Listed	*
Calcium sulfate, dihydrate	10101-41-4	Not Listed	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Povidone	9003-39-8	Not Listed	Not Listed	*
Peppermint flavor	8006-90-4	Not Listed	Not Listed	*
Hydroxypropyl methylcelluslose	9004-65-3	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.

5. FIRE FIGHTING MEASURES

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

Hazardous Combustion Products: Emits oxides of sulfur under combustion.

Material Name: Spironolactone Tablets

Revision date: 03-Apr-2012

Version: 1.3

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. 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Spironolactone

Pfizer OEL TWA-8 Hr: 90 μg/m³, Skin

Maize starch

ACGIH Threshold Limit Value (TWA)

Australia TWA

Belgium OEL - TWA

Bulgaria OEL - TWA

Czech Republic OEL - TWA

Greece OEL - TWA

10 mg/m³

4.0 mg/m³

10 mg/m³

5 mg/m³

 Ireland OEL - TWAs
 10 mg/m³

 4 mg/m³
 4 mg/m³

 OSHA - Final PELS - TWAs:
 15 mg/m³

 Portugal OEL - TWA
 10 mg/m³

 Slovakia OEL - TWA
 4 mg/m³

10 ma/m³

Spain OEL - TWA

Material Name: Spironolactone Tablets

Revision date: 03-Apr-2012

Version: 1.3

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Magnesium stearate

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

Polyethylene glycol

Austria OEL - MAKs1000 mg/m³Germany - TRGS 900 - TWAs1000 mg/m³

Germany (DFG) - MAK 1000 mg/m³ inhalable fraction

Slovakia OEL - TWA 1000 mg/m³
Slovenia OEL - TWA 1000 mg/m³

Calcium sulfate, dihydrate

ACGIH Threshold Limit Value (TWA) 10 mg/m³

Germany (DFG) - MAK1.5 mg/m³ respirable fraction 4 mg/m³ inhalable fraction

Ireland OEL - TWAs 10 mg/m³ 4 mg/m³

Portugal OEL - TWA 10 mg/m³

Analytical Method: Analytical method available for spironolactone. 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

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: Tablet Color: Yellow; Orange; Peach

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

Page 5 of 8

Material Name: Spironolactone Tablets

Revision date: 03-Apr-2012 Version: 1.3

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)

Spironolactone

Rat Oral LD 50 4121 mg/kg

Mouse Oral LD 50 >1000 mg/kg

Rabbit Oral LD 50 >1000 mg/kg

Rat Intraperitoneal LD 50 786 mg/kg

Povidone

Rat Oral LD50 100 g/kg

Magnesium stearate

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

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)

Spironolactone

Skin Sensitization - GPMT Guinea Pig No effect

Polyethylene glycol

Eye 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 LOAEL Liver, Male reproductive system

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

Spironolactone

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

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

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 Rabbit Oral 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

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ALDACTONE UNCOATED

Material Name: Spironolactone Tablets Page 6 of 8 Version: 1.3 Revision date: 03-Apr-2012

11. TOXICOLOGICAL INFORMATION

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

Spironolactone

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

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

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

See below

Spironolactone

IARC: Group 3 (Not Classifiable)

Povidone

Group 3 (Not Classifiable) IARC:

12. ECOLOGICAL INFORMATION

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

thoroughly investigated.

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

Carcinogenic: Category 3

Harmful

EU Risk Phrases:

R40 - Limited evidence of a carcinogenic effect

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R60 - May impair fertility.

Material Name: Spironolactone Tablets

Revision date: 03-Apr-2012

Page 7 of 8

Version: 1.3

15. REGULATORY INFORMATION

EU Safety Phrases:

S22 - Do not breathe dust. S24 - Avoid contact with skin.

S36/37 - Wear suitable protective clothing and gloves.

S53 - Avoid exposure - obtain special instructions before use.

OSHA Label:

WARNING

Suspected of causing cancer.

May cause damage to: blood and blood-forming organs through prolonged or repeated exposure.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A



Spironolactone

California Proposition 65 carcinogen initial date 5/1/97

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

Maize starch

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

Australia (AICS):

REACH - Annex IV - Exemptions from the

Present

Present

obligations of Register:

EU EINECS/ELINCS List 232-679-6

Povidone

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

Peppermint flavor

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

Magnesium stearate

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

Australia (AICS):

EU EINECS/ELINCS List

Present
209-150-3

Material Name: Spironolactone Tablets

Revision date: 03-Apr-2012

Page 8 of 8

Version: 1.3

15. REGULATORY INFORMATION

Hydroxypropyl methylcelluslose

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

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

Present
Schedule 4

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Polyethylene glycol
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Present

Calcium sulfate, dihydrate

Australia (AICS): Present

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R40 - Limited evidence of a carcinogenic effect

R60 - May impair fertility.

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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

Reasons for Revision: Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal

Protection.

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