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IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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

Material Name: Tolterodine Tartrate Tablets

Trade Name: Detrol®, Detrusitol®

Chemical Family: Mixture

Intended Use: Pharmaceutical product used for overactive bladder

2. HAZARDS IDENTIFICATION

White tablets Appearance: Signal Word: WARNING

Statement of Hazard: Suspected of damaging the unborn child.

Additional Hazard Information:

Short Term: Accidental ingestion may cause effects similar to those seen in clinical use.

Repeat-dose studies in animals have shown a potential to cause adverse effects on fetus. Long Term: **Known Clinical Effects:** May cause effects similar to those seen in clinical use including dry mouth, blurred vision,

constipation, and upset stomach.

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

EU Hazard Symbols:

Χn



EU Risk Phrases:

R63 - Possible risk of harm to the unborn child. Hazardous Substance. Non-Dangerous Goods.

Australian Hazard Classification (NOHSC):

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.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Tolterodine L-Tartrate	124937-52-6	Not Listed	Xn;R63	1 mg or 2 mg ***
			N;R51/53	
Silica colloidal, Ph. Eur.	112945-52-5	Not Listed	Not Listed	*
Titanium dioxide	13463-67-7	236-675-5	Not Listed	*
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	%
Sodium starch glycolate	9063-38-1	Not Listed	Not Listed	*
Dibasic calcium phosphate, dihydrate USP	7789-77-7	Not Listed	Not Listed	*
Stearic acid	57-11-4	200-313-4	Not Listed	*
Hydroxypropyl methylcelluslose	9004-65-3	Not Listed	Not Listed	*

Additional Information: * Proprietary

per tablet/capsule/lozenge/suppository

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 eyes with water for at least 15 minutes. If irritation occurs or persists, get medical

attention.

Skin Contact: Wash skin with soap and water. If irritation occurs or persists, get 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.

For information on potential signs and symptoms of exposure, See Section 2 - Hazards Symptoms and Effects of Exposure:

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 toxic fumes of carbon monoxide and nitrogen oxide.

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.

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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 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. Refer to Section 12 - Ecological Information, for information on

potential effects on the environment.

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.

Tolterodine L-Tartrate

Pfizer OEL TWA-8 Hr: 25µg/m³

Silica colloidal, Ph. Eur.

Austria OEL - MAKs 4 mg/m³

Titanium dioxide

ACGIH Threshold Limit Value (TWA) 10 ma/m³ 10 mg/m³ **Australia TWA** 5 mg/m³ **Austria OEL - MAKs** 10 mg/m³ **Belgium OEL - TWA** 10.0 mg/m³ **Bulgaria OEL - TWA** 6 mg/m³ **Denmark OEL - TWA** Estonia OEL - TWA 5 mg/m³ France OEL - TWA 10 mg/m³ 10 mg/m³ **Greece OEL - TWA** 5 mg/m³

Ireland OEL - TWAs 10 mg/m³

4 mg/m³ Latvia OEL - TWA 10 mg/m³ 5 mg/m³ Lithuania OEL - TWA 15 mg/m³ **OSHA - Final PELS - TWAs: Poland OEL - TWA** 10.0 mg/m³ 10 mg/m³ Portugal OEL - TWA Romania OEL - TWA 10 mg/m³ Spain OEL - TWA 10 ma/m³ **Sweden OEL - TWAs** 5 mg/m³

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Microcrystalline cellulose

ACGIH Threshold Limit Value (TWA) 10 mg/m³ **Australia TWA** 10 mg/m³ **Belgium OEL - TWA** 10 mg/m³ 10 mg/m³ **Estonia OEL - TWA** France OEL - TWA 10 mg/m³ 10 mg/m³ Ireland OEL - TWAs 4 mg/m³ Latvia OEL - TWA 2 mg/m^3 **OSHA - Final PELS - TWAs:** 15 mg/m³ Portugal OEL - TWA 10 mg/m³ Romania OEL - TWA 10 mg/m³ Spain OEL - TWA 10 mg/m³

Magnesium stearate

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

Analytical Method:

Engineering Controls:

Analytical method available for tolterodine. Contact Pfizer Inc for further information.

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:TabletColor:WhiteMolecular Formula:MixtureMolecular Weight:Mixture

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

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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)

Magnesium stearate

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

Microcrystalline cellulose

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

Titanium dioxide

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

Stearic acid

Rat Oral LD50 > 4640 mg/kg Rabbit Dermal LD50 > 5000 mg/kg

Hydroxypropyl methylcelluslose

Rat Oral LD50 > 10,000 mg/kg

Tolterodine L-Tartrate

Mouse Oral LD 50 > 200 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)

Microcrystalline cellulose

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

Stearic acid

Skin Irritation Rabbit Moderate Eye Irritation Rabbit Mild

Tolterodine L-Tartrate

Skin Irritation Rabbit Non-irritating

Skin Sensitization - GPMT Guinea Pig No effect

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

Stearic acid

30 Week(s) Rat Oral 300 ppm LOAEL Adipose tissue

Tolterodine L-Tartrate

26 Week(s) Mouse Oral 10 mg/kg/day NOAEL None identified 52 Week(s) Dog Oral 0.5 mg/kg/day NOAEL None identified

D700044

PZ00241

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11. TOXICOLOGICAL INFORMATION

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

Tolterodine L-Tartrate

Reproductive & Fertility-Females Oral 20 mg/kg/day NOAEL No effects at maximum dose Mouse Reproductive & Fertility-Males Oral 30 mg/kg/day **NOAEL** No effects at maximum dose Mouse Embryo / Fetal Development Mouse Oral 20 mg/kg/day **NOAEL** Embryotoxicity, Teratogenic

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

Stearic acid

In Vitro Bacterial Mutagenicity (Ames) Salmonella Negative Unscheduled DNA Synthesis E. coli Negative

Tolterodine L-Tartrate

Bacterial Mutagenicity (Ames) Salmonella , E. coli Negative
In Vivo Chromosome Aberration Human Lymphocytes Negative
In Vivo Micronucleus Mouse Negative

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

Stearic acid

26 Week(s) Rat Subcutaneous 0.5 mg/kg/week NOAEL Not carcinogenic 52 Week(s) Mouse Subcutaneous 0.05 mg/kg/week LOAEL Tumors

Tolterodine L-Tartrate

Not specified Mouse Oral 30 mg/kg/day Maximally Tolerated Dose Not carcinogenic

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

Titanium dioxide

IARC: Group 2B (Possibly Carcinogenic to Humans)

OSHA: Listed

Silica colloidal, Ph. Eur.

IARC: Group 3 (Not Classifiable)

12. ECOLOGICAL INFORMATION

Environmental Overview: This mixture contains material that is toxic to aquatic life. See Aquatic toxicity data of the

active ingredient, below:

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

Tolterodine L-Tartrate

Daphnia magna (Water Flea) OECD LC50 48 Hours 1.7 mg/L Pseudokirchneriella subcapitata (Green Alga) EC50 72 Hours 20 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: Xn

EU Indication of danger: Toxic to Reproduction: Category 3

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



Sodium starch glycolate

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

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15. REGULATORY INFORMATION

Australia (AICS): Present

Silica colloidal, Ph. Eur.

Australia (AICS): Present

Titanium dioxide

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

Australia (AICS):

EU EINECS/ELINCS List

Present
236-675-5

Dibasic calcium phosphate, dihydrate USP

Australia (AICS): Present

Stearic acid

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

Australia (AICS):

EU EINECS/ELINCS List

Present
200-313-4

Hydroxypropyl methylcelluslose

Inventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentStandard for the Uniform SchedulingSchedule 4

for Drugs and Poisons:

Microcrystalline cellulose

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

Australia (AICS):

EU EINECS/ELINCS List

Present
232-674-9

Magnesium stearate

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

Australia (AICS):

Present

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.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Publicly available toxicity information.

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

Ingredients. Updated Section 4 - First Aid Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 10 - Stability and Reactivity. Updated Section 11 - Toxicology Information. Updated Section 13 -

Disposal Considerations.

Prepared by: Product Stewardship Hazard Communication

Pfizer Global Environment, Health, and Safety Operations

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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