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

Pfizer Inc Pfizer Ltd
Pfizer Pharmaceuticals Group Ramsgate Road
235 East 42nd Street Sandwich, Kent
New York, New York 10017
1-212-573-2222 United Kingdom

+00 44 (0)1304 616161
Emergency telephone number: Emergency telephone number:

Contact E-Mail: pfizer-MSDS@pfizer.com

Material Name: Fesoterodine Fumarate Tablets

Trade Name: TOVIAZ

Synonyms: Fesoterodine Sustained Release (SR) Tablets

Chemical Family: Not determined

Intended Use: Pharmaceutical product for the treatment of overactive bladder

2. HAZARDS IDENTIFICATION

Appearance: Blue tablets

Statement of Hazard: Non-hazardous in accordance with international standards for workplace safety.

Additional Hazard Information:

Short Term: May be harmful if swallowed. May cause eye irritation if tablets are crushed or broken . (based

on components) .

Long Term: Repeat-dose studies in animals have shown a potential to cause adverse effects on liver and

the developing fetus.

Known Clinical Effects: Adverse effects most commonly reported in clinical use include dry mouth constipation, upset

stomach, dry eyes, urinary tract infection, abdominal pain, back pain, inflammation of the

pharynx (pharyngitis), painful urination, and difficulty with urination.

EU Indication of danger: Not classified

Australian Hazard Classification

(NOHSC):

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 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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2. HAZARDS IDENTIFICATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Fesoterodine fumarate	286930-03-8	Not Listed	Xn;R22	1.2-2.5
			Xi;R36	
			Repr.Cat.3;R63	
Microcrystalline cellulose	9004-34-6	232-674-9	Not Listed	*
Talc (non-asbestiform)	14807-96-6	238-877-9	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Glycerol dibehenate	99880-64-5	Not Listed	Not Listed	*
Opadry blue	NOT ASSIGNED	Not Listed	Not Listed	*
Lactose Monohydrate	64044-51-5	Not Listed	Not Listed	*
Hydroxypropyl methylcellulose	9004-65-3	Not Listed	Not Listed	*
Xylitol	87-99-0	201-788-0	Not Listed	*

Additional Information: 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: Formation of toxic gases is possible during heating or fire. May include oxides of carbon and

nitrogen

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

contained breathing apparatus.

Fire / Explosion Hazards: Not determined

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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 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.

Fesoterodine fumarate

Pfizer OEL TWA-8 Hr: 35µg/m³

Microcrystalline cellulose

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

Portugal OEL - TWA 10 mg/m³ Spain OEL - TWA 10 mg/m³

Talc (non-asbestiform)

ACGIH Threshold Limit Value (TWA) 2 mg/m^3 2.5 mg/m³ Australia TWA 2 ma/m3 Austria OEL - MAKs 2 mg/m^3 **Belgium OEL - TWA** 1.0 fiber/cm3 **Bulgaria OEL - TWA**

6.0 mg/m³ 3.0 mg/m^3

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Czech Republic OEL - TWA2.0 mg/m³
10 mg/m³Denmark OEL - TWA0.3 fiber/cm3Finland OEL - TWA0.5 fiber/cm3Greece OEL - TWA10 mg/m³
2 mg/m³

 $\begin{array}{ccc} \textbf{Hungary OEL - TWA} & 2 \text{ mg/m}^3 \\ \textbf{Ireland OEL - TWAs} & 10 \text{ mg/m}^3 \\ & & 0.8 \text{ mg/m}^3 \\ \textbf{Lithuania OEL - TWA} & 2 \text{ mg/m}^3 \end{array}$

 Netherlands OEL - TWA
 0.25 mg/m³

 OSHA - Final PELs - Table Z-3 Mineral D:
 20 mppcf

 Poland OEL - TWA
 4.0 mg/m³

 1.0 mg/m³
 1.0 mg/m³

 Portugal OEL - TWA
 2 mg/m³

 Slovakia OEL - TWA
 2 mg/m³

 10 mg/m³
 10 mg/m³

 Slovenia OEL - TWA
 2 mg/m³

 Spain OEL - TWA
 2 mg/m³

 Sweden OEL - TWAs
 2 mg/m³

 1 mg/m³

Analytical Method: Not available

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: Film-coated tablets Color: Light blue or Blue

Molecular Formula: Mixture Molecular Weight: Mixture

Solubility: Highly soluble: Water

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.

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10. STABILITY AND REACTIVITY

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.

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

Fesoterodine fumarate

Rat Oral LD50 ~ 681 mg/kg Mouse Oral LD50 ~ 316 mg/kg Rat Intravenous NOAEL 10 mg/kg Mouse Intravenous NOAEL 10 mg/kg

Hydroxypropyl methylcellulose

Rat Oral LD50 > 10,000 mg/kg

Lactose Monohydrate

Rat Oral LD 50 29700 mg/kg

Microcrystalline cellulose

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

Talc (non-asbestiform)

Rat Oral LD50 > 1600 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)

Fesoterodine fumarate

Skin Sensitization - M & K Guinea Pig Negative

Eye Irritation Rabbit Irritant Skin Irritation Rabbit Negative

Microcrystalline cellulose

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

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

Fesoterodine fumarate

6 Month(s) Mouse Oral 25 mg/kg/day NOAEL None identified

13 Week(s) Rat Oral 5 mg/kg/day NOEL Liver

13 Week(s) Dog Oral 2.5 mg/kg/day NOAEL Cardiovascular system, Blood

9 Month(s) Dog Oral 2.5 mg/kg/day NOAEL Cardiovascular system, Gallbladder

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

Fesoterodine fumarate

Fertility and Embryonic Development Mouse Oral mg/kg/day NOAEL Negative

PZ00576

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11. TOXICOLOGICAL INFORMATION

Embryo / Fetal Development Oral 15 mg/kg/day Mouse NOAEL Not Teratogenic, Embryotoxicity Embryo / Fetal Development Rabbit Oral 9 mg/kg/day NOAEL Not Teratogenic, Embryotoxicity Embryo / Fetal Development Rabbit Subcutaneous 4.5 mg/kg/day NOAEL No effects at maximum dose Prenatal & Postnatal Development Oral 60 mg/kg/day NOAEL No effects at maximum dose Mouse

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

Fesoterodine fumarate

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

Lactose Monohydrate

In Vitro Bacterial Mutagenicity (Ames) Negative

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

Fesoterodine fumarate

2 Year(s) Mouse Oral 60 mg/kg/day NOAEL Not carcinogenic2 Year(s) Rat Oral 60 mg/kg/day NOAEL Not carcinogenic

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

Talc (non-asbestiform)

IARC: Group 3 (Not Classifiable)

12. ECOLOGICAL INFORMATION

Environmental Overview:

Environmental properties have not been investigated. Releases to the environment should be avoided. The active ingredient in this formulation may be harmful to aquatic organisms. Long-term adverse effects to aquatic organisms are possible.

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

Fesoterodine fumarate

Pseudokirchneriella subcapitata (Green Alga) OECD EC50 72 Hours 20 mg/L

Activated sludge OECD EC50 3 Hours > 1000 mg/L

Daphnia Magna (Water Flea) OECD NOEC 21 Days 3.2 mg/L

Brachydanio rerio (Zebra fish) OECD NOEC 35 Days 11.5 mg/L

Aquatic Toxicity Comments: A greater than (>) symbol indicates that acute ecotoxicity was not observed at the maximum

solubility. Since the substance is insoluble in aqueous solutions above this concentration, an

acute ecotoxicity value (i.e. LC/EC50) is not achievable.

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.

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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 Indication of danger: Not classified

OSHA Label:

Non-hazardous in accordance with international standards for workplace safety.

Canada - WHMIS: Classifications

WHMIS hazard class: D2a very toxic materials D2b toxic materials



Fesoterodine fumarate

California Proposition 65 Not Listed

Glycerol dibehenate

California Proposition 65 Not Listed

Microcrystalline cellulose

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Present
EU EINECS/ELINCS List
232-674-9

Opadry blue

California Proposition 65 Not Listed

Lactose Monohydrate

California Proposition 65

Australia (AICS):

Not Listed
Present

Talc (non-asbestiform)

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15. REGULATORY INFORMATION

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Present
EU EINECS/ELINCS List
Present
238-877-9

Hydroxypropyl methylcellulose

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Present
Standard for the Uniform Scheduling
for Drugs and Poisons:

Not Listed
Present
Stack States TSCA - Sect. 8(b)
Present
Schedule 4

Xylitol

California Proposition 65Not ListedInventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentEU EINECS/ELINCS List201-788-0

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R22 - Harmful if swallowed. R36 - Irritating to eyes.

R63 - Possible risk of harm to the unborn child.

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

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

Identification. Updated Section 15 - Regulatory Information. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 7 - Handling and Storage. Updated Section 4 -

First Aid Measures.

Product Stewardship Hazard Communication

Prepared by: 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