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

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Pfizer Pharmaceuticals Group
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Emergency telephone number: Emergency telephone number:

**Material Name: Metronidazole Capsules** 

Trade Name: Flagyl Chemical Family: Mixture

Intended Use: Pharmaceutical product used as antibiotic agent, antiprotozoal agent.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous**

Ingredient	CAS Number	<b>EU EINECS List</b>	%
Metronidazole	443-48-1	207-136-1	375 mg***
Corn Starch	9005-25-8	232-679-6	*
Magnesium stearate	557-04-0	209-150-3	*
Black Iron Oxide	1317-61-9	215-277-5	*
Titanium dioxide	13463-67-7	236-675-5	*

Ingredient	CAS Number	EU EINECS List	%
Gelatin	9000-70-8	232-554-6	*
FD&C Yellow No. 10	Not assigned	Not listed	*
FD&C Green No. 3	2353-45-9	219-091-5	*

Additional Information: \* Proprietary

\*\*\* per tablet/capsule/lozenge/suppository

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

safety.

# 3. HAZARDS IDENTIFICATION

Appearance: Grey; Green Capsules

Signal Word: WARNING

Statement of Hazard: Suspected of damaging the unborn child.

Suspected of causing cancer.

**Additional Hazard Information:** 

**Short Term:** The active ingredient is not acutely toxic. Not an eye irritant (based on components). **Long Term:** Animal studies indicate that this material may cause adverse effects on the the developing

fetus.

**Known Clinical Effects:** Clinical use of this drug has caused nausea, dizziness, and effects on blood forming organs.

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EU Indication of danger: Harmful

**EU Hazard Symbols:** 



**EU Risk Phrases:** 

R40 - Limited evidence of a carcinogenic effect R63 - Possible risk of harm to the unborn child.

**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.

### 4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get

medical attention.

**Skin Contact:** Remove clothing and wash affected skin with soap and water. This material may not be

completely removed by conventional laundering. Consult professional laundry service. Do not

home launder. If irritation occurs or persists, get medical attention.

**Ingestion:** Get medical attention. Do not induce vomiting unless directed by medical personnel. Never

give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

# 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.

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:

Contain the source of the spill or leak if it is safe to do so. Vacuum or sweep material into

appropriate container for disposal.

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## 7. HANDLING AND STORAGE

**General Handling:** If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with

eyes, skin, and clothing. Minimize dust generation and accumulation. Use with adequate

ventilation.

**Storage Conditions:** Store at room temperature in properly labeled containers. Keep away from heat, sparks and

flames.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Metronidazole

Pfizer OEL TWA-8 Hr: 3200 ug/m3

Corn Starch

 $= 15 \text{ mg/m}^3 \text{ TWA}$ **OSHA - Final PELS - TWAs:** total

 $= 5 \text{ mg/m}^3 \text{ TWA}$  $= 10 \text{ mg/m}^3 \text{ TWA}$ 

**ACGIH Threshold Limit Value (TWA)** = 10 mg/m<sup>3</sup> TWA **Australia TWA** 

Magnesium stearate

**ACGIH Threshold Limit Value (TWA)**  $= 10 \text{ mg/m}^3 \text{ TWA}$ except stearates of toxic metals

 $= 10 \text{ mg/m}^3 \text{ TWA}$ **Australia TWA** 

**Black Iron Oxide** 

**ACGIH Threshold Limit Value (TWA)**  $= 1 \text{ mg/m}^3 \text{ TWA}$  $= 1 \text{ mg/m}^3 \text{ TWA}$ **Australia TWA** 

Titanium dioxide

**OSHA - Final PELS - TWAs:**  $= 15 \text{ mg/m}^3 \text{ TWA}$ total **ACGIH Threshold Limit Value (TWA)**  $= 10 \text{ mg/m}^3 \text{ TWA}$  $= 10 \text{ mg/m}^3 \text{ TWA}$ **Australia TWA** 

The exposure limit(s) listed for solid components are only relevant if dust may be generated.

Analytical method available for Metronidazole. Contact Pfizer Inc for further information. **Analytical Method:** 

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

general ventilation should be sufficient to control airborne levels.

**Personal Protective Equipment:** 

Not required for the normal use of this product. Wear protective gloves when working with Hands:

large quantities.

Not required under normal conditions of use. Wear safety glasses or goggles if eye contact is Eyes:

possible.

Skin: Not required for the normal use of this product. Wear protective clothing when working with

large quantities.

Respiratory protection: Not required for the normal use of this product. 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:

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Physical State:CapsuleColor:Gray ; GreenMolecular Formula:MixtureMolecular Weight:Mixture

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of use.

Conditions to Avoid: Not determined

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

### 11. TOXICOLOGICAL INFORMATION

**General Information:** There are no data for this formulation. The information included in this section describes the

potential hazards of the individual ingredients.

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

Metronidazole

Rat Oral LD 50 3 g/kg

Mouse Oral LD 50 3800 mg/kg

Mouse Intraperitoneal LD 50 870 mg/kg

Magnesium stearate

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

**Black Iron Oxide** 

Rat Oral LD50 >1000 mg/kg

Titanium dioxide

Rat Oral LD50 > 7500 mg/kg

Rat Subcutaneous LD 50 50 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.

### <u>Irritation / Sensitization: (Study Type, Species, Severity)</u>

Metronidazole

Eye Irritation Rabbit No effect

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

Metronidazole

2 Year(s) Mouse Oral 600 mg/kg LOAEL 80 Week(s) Rat Oral 30 mg/kg LOAEL

34 Day(s) Rat Oral = 34 g/kg LOAEL Kidney, Ureter, Bladder

4 Month(s) Dog Oral 75 mg/kg LOAEL

1 Year(s) Non-human Primate Oral 150 mg/kg LOAEL

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

Metronidazole

Reproductive & Fertility Rat Oral 400 mg/kg LOAEL Fertility

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Reproductive & Fertility Rabbit Oral 200 mg/kg NOAEL Fertility, Developmental toxicity, Fetotoxicity

Embryo / Fetal Development Mouse Intraperitoneal 9 mg/kg LOAEL Fetotoxicity

Embryo / Fetal Development Rat Oral 200 mg/kg NOEL Not Teratogenic

Embryo / Fetal Development Mouse Intraperitoneal 40 mg/kg LOAEL Fetotoxicity

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

#### Metronidazole

Bacterial Mutagenicity (Ames) Positive
Sister Chromatid Exchange Negative
Unscheduled DNA Synthesis Negative

In Vivo Micronucleus Negative

Chromosome Aberration Human Lymphocytes Negative

Carcinogen Status: See below

FD&C Green No. 3

IARC: Group 3

Metronidazole

IARC: Group 2B

NTP: Reasonably Anticipated To Be A Carcinogen

OSHA: Present

Titanium dioxide

IARC: Group 2B OSHA: Present

## 12. ECOLOGICAL INFORMATION

**Environmental Overview:** This formulation has not been tested as a whole, the following apply to component

substance(s): No harmful effects to aquatic organisms are expected. This material has low potential to bioaccumulate and long-term adverse effects to aquatic organisms are not

expected.

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

### Metronidazole

Mysid Shrimp OECD LC-50 96 Hours >180 mg/L

Sheepshead Minnow OECD LC-50 96 Hours >1060 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

**Disposal Procedures:** Dispose of waste in accordance with all applicable laws and regulations.

## 14. TRANSPORT INFORMATION

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

## 15. REGULATORY INFORMATION

EU Symbol: Xn EU Indication of danger: Harmful

**EU Risk Phrases:** 

R40 - Limited evidence of a carcinogenic effect 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. S53 - Avoid exposure - obtain special instructions before use.

#### **OSHA Label:**

WARNING

Suspected of damaging the unborn child.

Suspected of causing cancer.

## Canada - WHMIS: Classifications

#### WHMIS hazard class:

Class D, Division 2, Subdivision A



### Metronidazole

California Proposition 65Listed; CancerAustralia (AICS):PresentStandard for the Uniform SchedulingSchedule 4

for Drugs and Poisons:

EU EINECS List 207-136-1

**Corn Starch** 

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

Australia (AICS):

EU EINECS List

XU

Present
232-679-6

Magnesium stearate

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

Australia (AICS):

EU EINECS List

Present
209-150-3

### Gelatin

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Inventory - United States TSCA - Sect. 8(b)XUAustralia (AICS):PresentEU EINECS List232-554-6

**Black Iron Oxide** 

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

Australia (AICS):

Present

EU EINECS List

215-277-5

Titanium dioxide

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

Australia (AICS):

EU EINECS List

Present
236-675-5

FD&C Green No. 3

Inventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentEU EINECS List219-091-5

## 16. OTHER INFORMATION

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

Identification. Updated Section 5 - Fire Fighting Measures. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 10 - Stability and Reactivity. Updated Section 11 - Toxicology Information. Updated Section 12 - Ecological Information. Updated Section 13 -

Disposal Considerations.

Prepared by: Toxicology and Hazard Communication

Pfizer Global Environment, Health, and Safety

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**End of Safety Data Sheet**