

Revision date: 15-Dec-2006

Version: 1.1

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

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Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Emergency telephone number: ChemSafe (24 hours): +44 (0)208 762 8322

Material Name: Metronidazole Tablets

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	EU EINECS List	%
Metronidazole	443-48-1	207-136-1	250 or 500 mg***
Titanium dioxide	13463-67-7	236-675-5	*
CELLULOSE (FIBRE DE PAPIER)	9004-34-6	232-674-9	*

Ingredient	CAS Number	EU EINECS List	%
Polyethylene glycol	25322-68-3	Not listed	*
Hydroxypropyl cellulose	9004-64-2	Not listed	*
FD & C Blue No. 2, Aluminum lake	16521-38-3	240-589-3	*

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: Signal Word:	Blue Tablets WARNING
Statement of Hazard:	Suspected of damaging the unborn child. Suspected of causing cancer.
Additional Hazard Information: Short Term: Long Term:	The active ingredient is not acutely toxic. Not an eye irritant (based on components) . Animal studies indicate that this material may cause adverse effects on the the developing fetus.
Known Clinical Effects: EU Indication of danger:	Clinical use of this drug has caused nausea, dizziness, and effects on blood forming organs. Harmful
EU Hazard Symbols:	

Material Name: Metronidazole Tablets Revision date: 15-Dec-2006



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 no 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:	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:** 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 **Titanium dioxide OSHA - Final PELS - TWAs:** $= 15 \text{ mg/m}^3 \text{ TWA}$ total ACGIH Threshold Limit Value (TWA) = 10 mg/m³ TWA Australia TWA $= 10 \text{ mg/m}^3 \text{ TWA}$ **CELLULOSE (FIBRE DE PAPIER) OSHA - Final PELS - TWAs:** $= 15 \text{ mg/m}^3 \text{ TWA}$ total $= 5 \text{ mg/m}^3 \text{ TWA}$ **ACGIH Threshold Limit Value (TWA)** = 10 mg/m³ TWA Australia TWA $= 10 \text{ mg/m}^3 \text{ TWA}$ 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 should be used as the primary means to control exposures. Good **Engineering Controls:** general ventilation should be sufficient to control airborne levels. **Personal Protective Equipment:** Hands: Not required for the normal use of this product. Wear protective gloves when working with large quantities. Eyes: Not required under normal conditions of use. Wear safety glasses or goggles if eye contact is 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:

Physical State: Molecular Formula: Tablets Mixture Color: Molecular Weight: Blue Mixture

10. STABILITY AND REACTIVITY

 Conditions to Avoid: Incompatible Materials:
 Not determined 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

Titanium dioxide

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

CELLULOSE (FIBRE DE PAPIER)

 Rabbit
 Dermal
 LD 50
 > 2000
 mg/kg

 Rat
 Inhalation
 LC 50
 > 5.05
 mg/L/4 hours

 Rat
 Oral
 LD 50
 > 5000
 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)

Polyethylene glycol

Eye Irritation Rabbit Mild Skin Irritation Rabbit Mild

Metronidazole

Eye Irritation Rabbit No effect

CELLULOSE (FIBRE DE PAPIER)

Eye Irritation Rabbit Skin Irritation Rabbit Skin Sensitization - GPMT Guinea Pig

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 LOAEL 30 mg/kg 34 Day(s) Rat Oral = 34 g/kgLOAEL Kidney, Ureter, Bladder LOAEL 4 Month(s) Dog Oral 75 mg/kg 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 Reproductive & Fertility Rabbit Oral 200 mg/kg NOAEL Fertility, Developmental toxicity, Fetotoxicity Embryo / Fetal Development Mouse Intraperitoneal 9 mg/kg LOAEL Fetotoxicity 200 mg/kg Embryo / Fetal Development NOEL Not Teratogenic Rat Oral

Embryo / Fetal Development	Mouse	Intraperitoneal	40 mg/kg	LOAEL	Fetotoxicity
Genetic Toxicity: (Study Type	e, Cell Typ	e/Organism, Resu	<u>ilt)</u>		
Unscheduled DNA Synthesis In Vivo Micronucleus Negati	Negative Negative		/e		
Carcinogen Status:	S	See below			
Metronidazole IARC: NTP: OSHA:	F	Group 2B Reasonably Antici Present	pated To Be	A Carcino	ogen
Titanium dioxide IARC: OSHA:		Group 2B 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 potential to bioaccumulate and long term adverse effects to aquatic organisms are possible.

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

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

15. REGULATORY INFORMATION

EU Symbol: EU Indication of danger:	Xn 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 65	Listed; Cancer
Australia (AICS):	Present
Standard for the Uniform Scheduling	Schedule 4
for Drugs and Poisons:	00 7 400 4
EU EINECS List	207-136-1
Titanium dioxide	
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS List	236-675-5
Polyethylene glycol	<u>VII</u>
Inventory - United States TSCA - Sect. 8(b)	XU Present
Australia (AICS):	Present
Hydroxypropyl cellulose	
Inventory - United States TSCA - Sect. 8(b)	XU
Australia (AICS):	Present
FD & C Blue No. 2, Aluminum lake	
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS List	240-589-3

CELLULOSE (FIBRE DE PAPIE Inventory - United State Australia (AICS): EU EINECS List	•	XU Present 232-674-9
16. OTHER INFORMATIO	N	
Reasons for Revision:	Updated Section 2 - Composition / Information on Ingredients. Updated Section 3 - Hazard Identification. Updated Section 5 - Fire Fighting Measures. Updated Section 6 - Accidental Release Measures. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 10 - Stability and Reactivity. Updated Section 12 - Ecological Information. Updated Section 13 - Disposal Considerations.	
Prepared by:	Toxicology and Hazard Communication Pfizer Global Environment, Health, and Safety	
Dfizer he believes that the inform	nation contained in this Mat	arial Safaty Data Shaat is accurate, and while it is provided in good faith, it

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End of Safety Data Sheet