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Bayer
MANUFACTURER: BAYER CORPORATION
 AGRICULTURE DIVISION
 12707 WEST 63RD
 SHAWNEE MISSION, KS 66216-1846
TRANSPORTATION EMERGENCY:
 CALL CHEMTREC: 800-424-9300
 DISTRICT OF COLUMBIA: 202-483-7616
NON-TRANSPORTATION:
 BAYER EMERGENCY PHONE: (800) 422-9874
 BAYER INFORMATION PHONE: (913) 631-4800
         1. CHEMICAL PRODUCT IDENTIFICATION:
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PRODUCT NAME: BAYTRIL Taste Tablets (22.7 mg; 68 mg;
PRODUCT CODE: 033344
CHEMICAL FAMILY: Antimicrobial - Ouinoline compound
CHEMICAL NAME: 1-cyclopropyl-7-(4-ethyl-1-piperazinyl)-6-
 fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid
SYNONYMS: Enrofloxacin
FORMULA: Mixture - Does not apply
      _____
      2. COMPOSITION/INFORMATION ON INGREDIENTS:
_____
INGREDIENT NAME
                                       CONCENTRATION
/CAS NUMBER
                 EXPOSURE LIMITS
                                           (용)
_____
           ***** HAZARDOUS INGREDIENTS *****
Enrofloxacin
93106-60-6
             OSHA: Not Established
                                             7%
              ACGIH: Not Established
Ingredient 44-3875-00
Specific chemical identity is withheld as a trade secret.
             OSHA: Not Established
             ACGIH: Not Established
Talc
14807-96-6
             OSHA: 2.00 mg/m3 TWA (respirable) 1-3%
             ACGIH: 2.00 mg/m3 TWA (respirable)
Ingredient 56-6900-00
Specific chemical identity is withheld as a trade secret.
              OSHA: Not Established
              ACGIH: Not Established
Ingredient 56-6975-00
Specific chemical identity is withheld as a trade secret.
             OSHA: Not Established
              ACGIH: Not Established
Ingredient 56-6950-00
Specific chemical identity is withheld as a trade secret.
             OSHA: Not Established
              ACGIH: Not Established
Ingredient 62-1600-00
Specific chemical identity is withheld as a trade secret.
             OSHA: Not Established
              ACGIH: Not Established

    HAZARDS IDENTIFICATION:

_____
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EMERGENCY OVERVIEW:

COLOR: Light brown to brown with white specks FORM: Solid; Round convex scored tablet ODOR: Slight musty odor (enrofloxacin)

POTENTIAL HEALTH EFFECTS:

ROUTE(S) OF ENTRY: Inhalation; Skin Contact; Eye Contact HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE EFFECTS OF EXPOSURE: Exposure during the end-use of this product is expected to be minimal. End-users should refer to the packaging label for proper handling procedures. However, sufficient exposure to the components of this product during manufacturing, spills, etc., may cause respiratory, eye or skin irritation.

CHRONIC EFFECTS OF EXPOSURE: Repeated exposure to high amounts of talc, a component of this product, can cause talcosis, a pulmonary fibrosis, which may lead to severe and permanent damage to the lung, possibly resulting in disability or death.

CARCINOGENICITY: This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No specific medical conditions are known which may be aggravated by exposure to this product; however, persons suffering from chronic respiratory diseases may be at increased risk due to exposure to talc, a component in this product.

FIRST AID MEASURES:

FIRST AID FOR EYES: In case of contact, flush with plenty of water for at least 15 minutes. Call a physician if irritation develops and persists.

FIRST AID FOR SKIN: In case of contact, remove contaminated clothing and wash affected areas with plenty of soap and water. Wash clothing before reuse. Call a physician if irritation develops and persists. If signs of intoxication (poisoning) occur, get medical attention immediately.

FIRST AID FOR INHALATION: If inhaled, remove victim to fresh air or uncontaminated area. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician immediately.

FIRST AID FOR INGESTION: If ingestion is suspected, call a physician or poison control center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. If syrup of ipecac is available, administer 1 tablespoonful (15 mL) of syrup of ipecac followed by 1 to 2 glasses of water. If vomiting does not occur within 20 minutes, repeat the dose once. Do not induce vomiting or give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Treat victim symptomatically. In case of poisoning, it is also requested that Bayer Corp., Agriculture Division, Shawnee, KS, be notified. Telephone: 800-422-9874 (working hours) or 913-268-2700 (non-working hours).

ANTIDOTES: None known

5. FIRE FIGHTING MEASURES: ______

FLASH POINT: Not Applicable EXTINGUISHING MEDIA: Water; Carbon Dioxide; Dry Chemical SPECIAL FIRE FIGHTING PROCEDURES: Keep out of smoke. Cool exposed containers with water spray. Fight fire from upwind position. Use self-contained breathing apparatus. Contain runoff to prevent entry into sewers or waterways. UNUSUAL FIRE / EXPLOSION HAZARDS: Avoid creation of dust. There is a possibility it can become explosive.

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES: Sweep up tablets and place in a container for disposal.

7. HANDLING AND STORAGE: ______

STORAGE TEMPERATURE (MIN/MAX): Not established SHELF LIFE: See expiration date

SPECIAL SENSITIVITY: Not established HANDLING/STORAGE PRECAUTIONS: Store in a cool, dry place. Do not store near materials intended for the use or consumption by humans.

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8. PERSONAL PROTECTION:

REQUIRED WORK/HYGIENE PROCEDURES: Exposure during end-use of this product is expected to be minimal. End users should refer to the packaging label for proper handling procedures. However, sufficient exposure to the components of this product may occur during manufacturing, spills, etc., in which case the following personal protection is recommended.

EYE PROTECTION REQUIREMENTS: Wear safety goggles to prevent dust from getting into eyes.

SKIN PROTECTION REQUIREMENTS: Avoid skin contact. Wear long sleeves and trousers to prevent dermal exposure.

HAND PROTECTION REQUIREMENTS: Chemical-resistant gloves
VENTILATION REQUIREMENTS: Control exposure through the use

RESPIRATOR REQUIREMENTS: When exposure to dusts is excessive, wear a NIOSH-approved dust/mist respirator. ADDITIONAL PROTECTIVE MEASURES: Clean water should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions. Launder

clothing after use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM: Solid

APPEARANCE: Round convex scored tablet COLOR: Light brown to brown with white specks ODOR: Slight musty odor (enrofloxacin)

of general and local exhaust ventilation.

ODOR THRESHOLD: Not established MOLECULAR WEIGHT: Not established

pH: Not applicable

BOILING POINT: Not applicable

MELTING/FREEZING POINT: Not applicable

SOLUBILITY IN WATER: Appreciable (disintegrates)

SPECIFIC GRAVITY: Not applicable BULK DENSITY: Not established VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable (Air = 1)

10. STABILITY AND REACTIVITY:

STABILITY: This is a stable material.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITIES: Strong oxidizing agents; avoid acids and
alkali

INSTABILITY CONDITIONS: Not established
DECOMPOSITION TEMPERATURE: Not established
DECOMPOSITION PRODUCTS: Not established; may release toxic
gases when heated to decomposition

11. TOXICOLOGICAL INFORMATION:

Toxicity data have not been established on this product as formulated. The toxicity data below pertain to the active ingredient, enrofloxacin.

ACUTE TOXICITY:

ORAL LD50: Greater than 5000 mg/kg
DERMAL LD50: Greater than 2000 mg/kg
INHALATION LC50: Greater than 3547 mg/m3 (4 hr. exposure)
EYE EFFECTS: Irritant; reversible in less than 7 days
SKIN EFFECTS: Not a primary dermal irritant
SENSITIZATION: Not a dermal sensitizer

SUBCHRONIC TOXICITY:

 ${\tt DOG}$ - NOEL (no observable effect level): 3 mg/kg CHRONIC TOXICITY:

RAT - NOEL: 2.9 mg/kg

CARCINOGENICITY - RAT & MOUSE: Non-carcinogenic MUTAGENICITY: Negative in most test systems; suspect in others.

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DEVELOPMENTAL TOXICITY - RAT: Non-teratogenic at 875 mg/kg REPRODUCTION:
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RAT - NOEL: 165 mg/kg in 2-generation study NEUROTOXICITY: Not established

12. ECOLOGICAL INFORMATION:

AQUATIC TOXICITY:

BLUEGILL & RAINBOW TROUT - LC50: Greater than 10 mg/l
 (96 hr.)

13. DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable state and local regulations.

EMPTY CONTAINER PRECAUTIONS: Do not reuse container.

14. TRANSPORTATION INFORMATION:

TECHNICAL SHIPPING NAME: Enrofloxacin
FREIGHT CLASS BULK: Drugs & Medicines
FREIGHT CLASS PACKAGE: Drugs & Medicines
PRODUCT LABEL: Not Noted
DOT (DOMESTIC SURFACE):

DOT (DOMESTIC SURFACE):

PROPER SHIPPING NAME: Not Regulated

HAZARD CLASS OR DIVISION: Non-Regulated

IMO / IMDG CODE (OCEAN):

PROPER SHIPPING NAME: Not Regulated HAZARD CLASS DIVISION NUMBER: Non-Regulated ICAO / IATA (AIR):

PROPER SHIPPING NAME: Not Regulated
HAZARD CLASS DIVISION NUMBER: Non-Regulated

15. REGULATORY INFORMATION:

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS: This product is a food, food additive, drug, cosmetic or device as defined by Section 201 of the Federal Food, Drug and Cosmetic Act and therefore is exempt from TSCA regulation under Section 3 (2)(B)(vi).

CERCLA REPORTABLE QUANTITY: Not applicable

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None SECTION 311/312 HAZARD CATEGORIES: Immediate Health Hazard

SECTION 313 TOXIC CHEMICALS: None

RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

16. OTHER INFORMATION:

NFPA 704M RATINGS: 0=Insignificant; 1=Slight; 2=Moderate;

3=High; 4=Extreme HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

OTHER

Bayer's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. NFPA ratings are provided by Bayer as a customer service.

REASON FOR ISSUE: Revise Product Code PREPARED BY: V. C. Standart

APPROVED BY: D. C. Eberhart TITLE: Product Safety Manager APPROVAL DATE: 01/05/98 SUPERSEDES DATE: 09/05/97

MSDS NUMBER: 31850

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COMPAS Code: 28280630

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