SAFETY DATA SHEETS

This SDS packet was issued with item:

078951186

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078951185



Ofloxacin Ophthalmic Solution

Section 1 - IDENTIFICATION

Product Identifier:	Ofloxacin Ophthalmic Solution, USP, 0.3%
Synonyms:	7H-Pyrido [1,2,3-de]-1,4-benzoxazine-6-carboxylic acid,9-fluoro-2,3-dihydro-3- methyl-10-(4-methyl-1- piperazinyl)-7-oxo-, (+/-)-
NDC Code:	NDC # 72485-613-10 NDC # 72485-613-11
Recommended Use:	Pharmaceutical
Manufacturer: Telephone:	Ophtapharm AG Riethofstrasse 1 CH-8442 Hettlingen Switzerland +1855-473-6847
Email:	quality@sentiss.ch

Section 2 – HAZARD(S) IDENTIFICATION

Physical Hazards:	Not classifiable.
Health Hazards:	Not classifiable.
Symbol(s):	None.
Signal Word:	None.
Hazard Statement(s):	None.
Precautionary Statement(s):	None.
Hazards Not Otherwise Classified:	Not classifiable.
Supplementary Information:	While this material is not classifiable as hazardous under the
	OSHA standard, this SDS contains valuable information critical
	to safe handling and proper use of theproduct. This SDS should
	be retained and available for employees and other users of this
	product

Section 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Synonyms	ChemicalFormula	Molecular Weight	Percentage
Ofloxacin	82419-36-1	7H-Pyrido [1,2,3-de]-1,4- benzoxazine- 6-carboxylic acid, 9-fluoro-2,3-dihydro- 3-methyl- 10-(4-methyl-1-piperazinyl)-7- oxo-, (+/-)-	C18H20FN3O4	361.37	0.3%

*The formula also contains Benzalkonium Chloride, 0.005% as preservative; Sodium Chloride and Waterfor injection. May also contain Hydrochloric Acid to and/or Sodium Hydroxide to adjust pH



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Section 4 – FIRST AID MEASURES Ingestion: If a person vomits place them in the recovery position sothat vomit will not reenter the mouth and throat. Rinse mouth with water. If swallowed, seek medical advice immediately and show the container or label. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and takeprecautions to protect themselves. **Eye Contact:** Remove from source of exposure. Flush with copious amounts of water for at least 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention.Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions toprotect themselves. **Skin Contact:** Remove from source of exposure. Remove and isolate contaminated clothing and shoes. Flush with copious amounts of water for at least 20 minutes. Use soap. If irritation persists or signs of toxicity occur, seek medicalattention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions toprotect themselves. Inhalation: Remove from source of exposure. Move individual(s) to fresh air. Give artificial respiration if individual(s) are not breathing and call emergency medical service. If signs oftoxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to protect themselves. **Protection of First-Aiders:** Use personal protective equipment (see section 8). Signs and Symptoms: Not determined. See package insert for more information.



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Medical Conditions Aggravated	
by Exposure:	The systemic administration of quinolones, including ofloxacin, has led to lesions or erosions of the cartilage in weight-bearing joints and other signs of arthropathy inimmature animals of various species. Ofloxacin, administered systemically at 10mg/kg/day in young dogs(equivalent to 110 times the maximum recommended daily adult ophthalmic dose) has been associated with these types of effects. Quinolones, including ofloxacin, have been shown to cause arthropathy in immature animals after oral administration; however, topical ocular administration of ofloxacin to immature animals has not shown any arthropathy. There is no evidence that the ophthalmic dosage form of ofloxacin has any effect on weight bearing joints.
Notes to Physician:	Treat supportively and symptomatically.
Section 5 – FIREFIGHTIN MEASURES	
Flammability:	Not determined.
Suitable Extinguishing Media:	Use extinguishing media suitable for surrounding materials such as dry chemical, carbon dioxide, halon,water spray or fog, and foam.
Unsuitable Extinguishing Media:	Not determined.
Specific Hazards Arising from the Chemical:	
Hazardous Combustion Products:	Products of combustion may be toxic.
Other Specific Hazards:	Not determined.
Special Protective Equipment/ Precautions for Firefighters:	Wear self-contained breathing apparatus and full and protective gear.



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Section 6 – ACCIDENTAL RELEASE MEASURES Personal Precautions: Use personal protective equipment recommended in Section 8 of this document and isolate the hazard area. **Personal Protective Equipment:** For personal protection see section 8. Methods for Cleaning Up: Spills may be absorbed with a wet disposable towel or other suitable adsorbent. Carefully collect and place in asuitable, properly labeled container for disposal. Clean area using soap and water. **Environmental Precautions:** Product as administered to patients presents a negligible impact on the environment. **Reference to Other Sections:** Refer to Sections 8, 12 and 13 for further information. Section 7– HANDLING ANS STORAGE **Precautions for Safe Handling** : Avoid contact with product and use caution to prevent puncturing containers. No special protective equipment or procedures are required in the clinical or home environment. Wash thoroughly after handling. Contaminated clothing should be laundered before reuse.

:

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Pharmaceuticals.

Handle in accordance with product label and/or product insert information. Handle in accordance with good

Store the product in original container with the cap tightly closed at a controlled room temperature $15^{\circ}C - 25^{\circ}C$ (59°F

– 77°F). KEEP THIS AND ALL DRUGS OUT OF THE REACH OF CHILDREN. Store according to label and/or product insert information. Store away from oxidizing agents and acids.

industrial hygiene and safety practices.

Specific End Use

Conditions for Safe Storage,

Including Any Incompatibilities



Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Guidelines:

Common or Chemical Name	Employee Exposure Limits
Ofloxacin	Not established.
Engineering Controls:	Engineering controls should be used as the primary means to control exposures.
Respiratory Protection:	Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29CFR 1910.134).
Eyes Protection:	Not required for the normal use of this product. Safetyglasses with side shields are recommended. Face shields or goggles may be required if splash potentialexists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.
Hand Protection:	Not required for the normal use of this product. Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimizedirect hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other syntheticnon-latex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.
Skin Protection:	Not required for the normal use of this product. Wear protective laboratory coat, apron, or disposable garmentwhen working with large quantities.



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Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Odor:No data available.Odor Threshold:No data available.
рН: 6.2 – 6.8.
Melting Point: No data available.
Freezing Point: No data available.
Boiling Point: No data available.
Flash Point: No data available.
Evaporation Rate: No data available.
Flammability (solid, gas): No data available.
Flammability Limit - Lower: No data available.
Flammability Limit - Upper: No data available.
Vapor Pressure: No data available.
Vapor Density: No data available.
Relative Density: No data available.
Solubility(ies): Completely miscible.
Partition Coefficient
(n-octanol/water): No data available.
Auto-Ignition Temperature: No data available.
Decomposition Temperature: No data available.
Viscosity: Aqueous.
Volatile Component:Less than 1%.

Section 10 – STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical Stability	:	Stable under recommended storage conditions
Possibility of Hazardous Reactions	:	No data available.
Conditions to Avoid (e.g., static discharge, shock, or vibration	:	Extreme heat or cold
Incompatible Materials	:	Similar to water; e.g. strong acids, base, alkali metals, alkali hydrides and silver preparations.
Hazardous Decomposition Products	:	Products of combustion may be toxic
Hazardous Polymerization	:	Will not occur.



Section 11 – TOXICOLOGICAL INFORMATION

Information on the Likely Routes of Exposure:

Toxicity	:	Ofloxacin may be irritating to the eye/nose/throat and cause asthenia, malaise, seizures, anxiety, cognitive change, vertigo, cough, bronchospasm, tachycardia, syncope, hepatic dysfunction, kidney dysfunction, and hypersensitivity reactions.
Inhalation	:	May irritate the respiratory system.
Ingestion	:	No data available.
Skin Contact	:	Ofloxacin should be discontinued at the first appearance of a skin rash or any other sign of hypersensitivity reaction.
Eye Contact	:	May cause eye irritation
Symptoms Related to the Physical, Chemical and Toxicological Characteristics	:	See Section 4. To the best of our knowledge, the chemical, physical and toxicological properties have notbeen thoroughly investigated
Delayed and Immediate Effects of Exposure	:	No data available.

Acute Toxicity:

Compound	Species	Route	Туре	Dose
Ofloxacin	Male Rats	Oral	LD ₅₀	3,590 mg/kg
Ofloxacin	Female Rats	Oral	LD ₅₀	3,750 mg/kg
Ofloxacin	Male Mice	Oral	LD ₅₀	5,450 mg/kg
Ofloxacin	Female Mice	Oral	LD ₅₀	5,290 mg/kg
Ofloxacin	Male	Oral	LD ₅₀	17 mg/kg/d
Ofloxacin	Female	Oral	LD ₅₀	24 mg/kg/d
Ofloxacin	Male Rats	Intravenous	LD ₅₀	273 mg/kg
Ofloxacin	Female Rats	Intravenous	LD ₅₀	276 mg/kg
Ofloxacin	Male Mice	Intravenous	LD ₅₀	280 mg/kg
Ofloxacin	Female Mice	Intravenous	LD ₅₀	233 mg/kg
Ofloxacin	Male Rats	Subcutaneous	LD ₅₀	7,070 mg/kg
Ofloxacin	Female Rats	Subcutaneous	LD ₅₀	9,000 mg/kg
Ofloxacin	Male Mice	Subcutaneous	LD ₅₀	10,000 mg/kg
Ofloxacin	Female Mice	Subcutaneous	LD ₅₀	10,000 mg/kg



Reproductive

Toxicity – Embryotoxicity:

Compound	Species	Dose	Effect(s)
Ofloxacin	Rats	160	Embryotoxicity/ Not
		mg/kg/d	Teratogenic
Ofloxacin	Rabbits	810	Embryotoxicity/ Not
		mg/kg/d	Teratogenic

Acute Toxicity – Dermal: Acute Toxicity – Inhalation: Corrosivity: Dermal Irritation: Eye Irritation: Sensitization: Toxicokinetics/Metabolism: Target Organ Effects: Reproductive Effects:	No data available. No data available. No data available. No data available. No data available. No data available. No data available. None. No data available.
Carcinogenicity:	Long-term studies to determine the carcinogenicpotential of Ofloxacin have not been conducted.
National Toxicology Program (NTP	?):Not considered to be a carcinogen.
International Agency for Research Cancer (IARC):	on Not considered to be a carcinogen.
Occupational Safety and Health Administration (OSHA):	Not considered to be a carcinogen.
Mutagenicity:	Ofloxacin was not mutagenic in the Ames test, in vitro and in vivo cytogenic assay, sister chromatid exchangeassay (Chinese hamster and human cell lines), unscheduled DNA synthesis (UDS) assay using humanfibroblasts, the dominant lethal assay, or mouse micronucleus assay. Ofloxacin was positive in the UDStest using rat hepatocyte, and in the mouse lymphoma assay.
Fertility:	In fertility studies in rats, Ofloxacin did not affect male orfemale fertility or morphological or reproductive performance at oral dosing up to 360 mg/kg/day (equivalent to 4000 times the maximum recommended daily ophthalmic dose).



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Pregnancy:	Pregnancy category C Ofloxacin has been shown to have an embryocidal effect in rats and in rabbits when given in doses of 810 mg/kg/day (equivalent to 9000 times the maximum recommended daily ophthalmic dose) and 160 mg/kg/day (equivalent to 1800 times the maximum recommended daily ophthalmic dose). These dosages resulted in decreased fetal body weight and increased fetal mortality in rats and rabbits, respectively.Minor fetal skeletal variations were reported in rats receiving doses of 810 mg/kg/day. Ofloxacin has not been shown to be teratogenic at doses as high as 810 mg/kg/day and 160 mg/kg/day when administered to pregnant rats and rabbits, respectively.
Nursing Mothers:	In nursing women a single 200mg oral dose resulted in concentrations of Ofloxacin in milk which were similar tothose found in plasma. It is not known whether Ofloxacinis excreted in human milk following topical ophthalmic administration. Because of the potential for serious adverse reactions from Ofloxacin in nursing infants, a decision should be made whether to discontinue nursingor to discontinue the drug, taking into account the importance of the drug to the mother.
Drug Interactions:	Specific drug interaction studies have not been conducted with Ofloxacin ophthalmic solution. However,the systemic administration of some quinolones has been shown to elevate plasma concentrations of theophylline, interfere with the metabolism of caffeine, and enhance the effects of the oral anticoagulant warfarin and its derivatives, and, has been associated with transient elevations in serum creatinine in patients receiving cyclosporine concomitantly.
Aspiration Hazard:	No data available



Section 12 – ECOLOGICALINFORMATION

Ecotoxicity

Aquatic:	No data available.
Terrestrial:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
Mobility in Environment:	No data available.
Other Adverse Effects:	No data available.

Section 13 – DISPOSAL CONSIDERATION

Dispose of all waste in accordance with Federal, State and Local regulations.

Section 14 – TRANSPORT INFORMATION

UN Number UN Proper Shipping Name Transport Hazard Class(es) Packing Group	: : :	Not applicable Not applicable Not applicable Not applicable
Department of Transportation	:	Not regulated as a hazardous material
International Air Transport Association (IATA)	:	Not regulated as a dangerous good.
International Maritime Dangerous Good (IMDG)	:	Not regulated as a dangerous good.



Section 15 – REGULATORY INFORMATION	
US Federal Regulations:	
Toxic Substance Control Act (TSCA):	Not listed.
CERCLA Hazardous Substance and Reportable Quantity:	Not listed.
SARA 313: SARA 302:	Not listed. Not listed.
State Regulations	
California Proposition 65:	Not listed.
Section 16 – OTHER INFORMATION	

Not made with natural rubber latex.

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