

pany:

e

n

ge of all the essential  
acts.

mation gives you the  
ial data you need.

our widespread net-  
ther, organize and

1 a timely manner.

re it is published.

ed for quick,

ly for fast reference.



PHYSICIANS'  
DESK  
REFERENCE  
FOR  
OPHTHALMOLOGY®

**Editorial Consultants and Contributors**

**Clement A. Weisbecker, RPh**, Director of Pharmacy, Wills Eye Hospital, Philadelphia, PA  
**F.T. Fraunfelder, MD**, Director, National Registry of Drug-Induced Ocular Side Effects, Oregon Health Sciences University, Portland, OR

**Michael Naidoff, MD**, Cornea Service, Wills Eye Hospital, Philadelphia, PA

**Douglas Rhee, MD**, Wills Eye Hospital, Philadelphia, PA

**Richard Tippermann, MD**, Wills Eye Hospital, Philadelphia, PA

**Vice President of Directory Services:** Stephen B. Greenberg

**Director of Product Management:** David P. Reiss

**Senior Product Manager:** Mark A. Friedman

**Associate Product Manager:** Bill Shaughnessy

**National Sales Manager:** Dikran N. Barsamian

**National Account Manager, Customized Projects:**

Anthony Sorce

**Senior Account Manager:** Don Bruccoleri

**Account Managers:** Marion Gray, RPh, Lawrence C. Keary,

Jeffrey F. Pfohl, Christopher N. Schmidt,  
Stephen M. Silverberg, Suzanne E. Yarrow, RN

**National Sales Manager, Trade Group:** Bill Gaffney

**Director of Direct Marketing:** Michael Bennett

**Direct Marketing Manager:** Lorraine M. Loening

**Promotion Manager:** Donna R. Lynn

**Director, Professional Support Services:**

Mukesh Mehta, RPh

**Senior Drug Information Specialist:**

Thomas Fleming, RPh

**Drug Information Specialist:** Maria Deutsch, MS, RPh, CDE

**Editor, Special Projects:** David W. Sifton

**Vice President of Production:** David A. Pitler

**Director of Print Purchasing:** Marjorie A. Duffy

**Director of Operations:** Carrie Williams

**Manager of Production:** Kimberly H. Vivas

**Senior Production Coordinators:** Amy B. Brooks,

Dawn B. McCall

**Production Coordinator:** Mary Ellen R. Breun

**Index/Format Manager:** Jeffrey D. Schaefer

**Senior Format Editor:** Gregory J. Westley

**Index Editors:** Johanna M. Mazur, Robert N. Woerner

**Art Associate:** Joan K. Akerlind

**Senior Digital Imaging Coordinator:** Shawn W. Cahill

**Digital Imaging Coordinator:** Frank J. McElroy, III

**Electronic Publishing Designer:** Robert K. Grossman

**Fulfillment Managers:** Stephanie DeNardi, Kenneth Siebert

Place  
Stamp  
Here



Copyright © 1998 and published by Medical Economics Company, Inc. at Montvale, NJ 07645-1742. All rights reserved. None of the content of this publication may be reproduced, stored in a retrieval system, resold, redistributed, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise) without the prior written permission of the publisher. PHYSICIANS' DESK REFERENCE®, PDR®, PDR For Nonprescription Drugs®, PDR For Ophthalmology®, Pocket PDR®, and The PDR® Family Guide to Prescription Drugs® are registered trademarks used herein under license. PDR Companion Guide™, PDR® for Herbal Medicines™, PDR® Medical Dictionary™, PDR® Nurse's Handbook™, PDR® Nurse's Dictionary™, PDR® Atlas of Anatomy™, The PDR® Family Guide Encyclopedia of Medical Care™, PDR® Electronic Library™, and PDR® Drug Interactions, Side Effects, Indications, Contraindications System™ are trademarks used herein under license.

**Officers of Medical Economics Company:** *President and Chief Executive Officer:* Curtis B. Allen; *Vice President, New Media:* L. Suzanne BeDell; *Vice President, Corporate Human Resources:* Pamela M. Bilash; *Vice President and Chief Information Officer:* Steven M. Bressler; *Senior Vice President, Finance, and Chief Financial Officer:* Thomas W. Ehardt; *Vice President, Directory Services:* Stephen B. Greenberg; *Vice President, New Business Planning:* Linda G. Hope; *Executive Vice President, Healthcare Publishing and Communications:* Thomas J. Kelly; *Executive Vice President, Magazine Publishing:* Lee A. Maniscalco; *Vice President, Group Publisher:* Terrence W. Meacock; *Vice President, Production:* David A. Pitler; *Vice President, Group Publisher:* Thomas C. Pizor; *Vice President, Magazine Business-Management:* Eric Schlett; *Senior Vice President, Operations:* John R. Ware

ISBN: 1-56363-290-X

DOCKET  
ALARM

Find authenticated court documents without watermarks at [docketalarm.com](http://docketalarm.com).

# CONTENTS

## Section 1: Indices

Page I

1. Manufacturers' Index.....	I
2. Product Name Index .....	III
3. Product Category Index.....	VI
4. Active Ingredients Index.....	IX

## Section 2: Pharmaceuticals in Ophthalmology

Page 1

1. Mydriatics and Cycloplegics .....	2
2. Antimicrobial Therapy .....	2
3. Ocular Anti-inflammatory Agents.....	7
4. Anesthetic Agents .....	9
5. Agents for Treatment of Glaucoma .....	10
6. Medications for Dry Eye.....	13
7. Ocular Decongestants .....	14
8. Ophthalmic Irrigating Solutions.....	15
9. Hyperosmolar Agents .....	15
10. Diagnostic Agents .....	16
11. Viscoelastic Materials Used in Ophthalmology.....	17
12. Off-Label Drug Applications in Ophthalmology .....	17
13. Ocular Toxicology.....	19

## Section 3: Suture Materials

Page 23

## Section 4: Ophthalmic Lenses

Page 25

1. Soft Contact Lenses.....	25
2. Aphakic Lenses.....	50
3. Comparison and Conversion Tables .....	52

## Section 5: Vision Standards and Low Vision

Page 56

1. Vision Standards.....	56
2. Low-Vision Aids .....	58

## Section 6: Evaluation of Permanent Visual Impairment

59

1. Criteria and Methods .....	59
2. Visual System Impairment Values .....	68
3. Combined Values Chart .....	71

**Section 7: Product Identification Guide** **Page 101**

- 1. Index.....102
- 2. Full-Color Product Photographs.....103

**Section 8: Pharmaceutical and Equipment Product Information** **Page 201**

Listed alphabetically by manufacturer

**Section 9: Intraocular Product Information** **Page 315**

**Key to Controlled Substances Categories** **Page 319**

**Key to FDA Use-in-Pregnancy Ratings** **Page 320**

**Amsler's Grid** **Inside Front Cover**

# SECTION 1 INDICE

This section offers information you need:

**1. Manufacturers'** participating manufacturer two page numbers graphs in the Product to product i addresses and tele headquarters and re

**2. Product Name I** uct information alp mond symbol to the tograph of the Identification Guide page number refer:

## PART I/MANUF

**AKORN, INC. ....**  
2500 Millbrook Driv  
Buffalo Grove, IL 60  
**Direct Inquiries to:**  
Customer Service  
(800) 535-7155

**ALCON LABORATOR**  
and its Affiliates  
Corporate Headqua  
6201 South Freewe  
Fort Worth, TX 761  
**Direct Inquiries to:**  
Ophthalmic/VisionC  
(Pharmaceuticals/L  
Surgical: (800) 862  
(Instrumentation/S  
Systems: (800) 28:  
(Medical Managem  
Systems)

**ALLERGAN .....**  
2525 Dupont Drive  
P.O. Box 19534  
Irvine, CA 92623-9  
**For Medical Inform**  
Outside CA: (800)  
CA: (714) 246-45C  
**Sales and Orderin**  
Outside CA: (800)  
CA: (714) 246-45C

**BAUSCH & LOMB .  
PHARMACEUTIC**  
8500 Hidden River  
Tampa, FL 33637



## 6. MEDICATIONS FOR DRY EYE

Dry eye refers to a deficiency in either the aqueous or mucin components of the precorneal tear film. The most commonly encountered aqueous-deficient dry eye in the United States is keratoconjunctivitis sicca, while mucin-deficient dry eyes may be seen in cases of hypovitaminosis A, Stevens-Johnson syndrome, ocular pemphigoid, extensive trachoma, and chemical burns.

Dry eye is treated with artificial tear preparations (see **Table 20**) and ophthalmic lubricants (see **Table 21**). The lubricants form an occlusive film over the ocular surface and protect the eye from drying. Administered as a nighttime medication, they are useful both for dry eye and in cases of recurrent corneal erosion.

TABLE 20

### ARTIFICIAL TEAR PREPARATIONS

MAJOR COMPONENT(S)	CONCENTRATION (%)	TRADE NAME	PRESERVATIVE/EDTA*
Carboxymethyl cellulose	0.5%	Refresh Plus	None
	1%	Celluvisc	None
	0.25%	Theratears	None
Glycerin	3%	Dry Eye Therapy	None
Hydroxyethyl cellulose, polyvinyl alcohol		TearGard	Sorbic acid, EDTA
Hydroxypropyl cellulose		Lacrisert (biodegradable insert)	None
Hydroxypropyl methylcellulose	0.5%	Isopto Plain	Benzalkonium chloride
		Isopto Tears	Benzalkonium chloride
		Tearisol	Benzalkonium chloride, EDTA
		Isopto Alkaline	Benzalkonium chloride
Hydroxypropyl methylcellulose, dextran 70		Bion Tears	None
		Ocucoat	Benzalkonium chloride, EDTA
		Ocucoat PF	None
		Tears Naturale II	Polyquad
		Tears Naturale Free	None
		Tears Renewed	Benzalkonium chloride, EDTA
Methylcellulose	1%	Murocel	Methyl-, propylparabens
		AquaSite	EDTA
Polycarbophil, PEG-400, dextran 70		AquaSite multi-dose	EDTA, Sorbic acid
Polysorbate 80		Viva Drops	EDTA
Polyvinyl alcohol	1.4%	AKWA Tears	Benzalkonium chloride, EDTA
	3%	Dry Eyes	Chlorobutanol
Polyvinyl alcohol, PEG-400, dextrose	1%	Liquifilm Tears	Chlorobutanol
		HypoTears	Benzalkonium chloride, EDTA
		HypoTears PF	EDTA
Polyvinyl alcohol, povidone	1.4%	Puralube Tears	Benzalkonium chloride, EDTA
	0.6%	Murine Tears	Benzalkonium chloride, EDTA
		Refresh	None
		Tears Plus	Chlorobutanol

\*EDTA = ethylenediaminetetraacetic acid.

SET/DURATION OF ACTION

min/5-6 h

60 min/6 h

45 min/5-6 h

ONSET/DURATION OF ACTION

2 h/4-6 h

5-10 min/2 h

...

30 min/6 h

...

2 h/4-6 h

SIZE(S)(mL)

5

single use bottle

5, 10, 15

SIZE(S)(mL)

2.5

TABLE 21

**OPHTHALMIC LUBRICANTS**

TRADE NAME	COMPOSITION OF STERILE OINTMENT
AKWA Tears Ointment	White petrolatum, liquid lanolin, and mineral oil
Dry Eyes	White petrolatum, liquid lanolin, and mineral oil
Duolube	White petrolatum and mineral oil
Duratears Naturale	White petrolatum, liquid lanolin, and mineral oil
HypoTears	White petrolatum and light mineral oil
Lacri-Lube S.O.P., Lubritears	42.5% mineral oil, 55% white petrolatum, lanolin alcohol, and chlorobutanol
Puralube	White petrolatum, liquid lanolin, and mineral oil
Refresh P.M., Dry Eyes Lubricant	41.5% mineral oil, 55% white petrolatum, petrolatum, and lanolin alcohol

**7. OCULAR DECONGESTANTS**

These topically applied adrenergic medications are commonly used to whiten the eye. Three types are available. Those containing naphazoline and tetrahydrozoline are more stable than those with phenylephrine. Usual dosage is 1 or 2 drops no more than 4 times a day (see **Table 22**).

TABLE 22

**OCULAR DECONGESTANTS**

DRUG	TRADE NAME	ADDITIONAL COMPONENTS
Naphazoline hydrochloride	AK-Con*	Benzalkonium chloride, edetate disodium
	Albalon*	Benzalkonium chloride, edetate disodium
	Clear Eyes	Benzalkonium chloride, edetate disodium
	Naphcon	Benzalkonium chloride, edetate disodium
	Vasoclear	Benzalkonium chloride, edetate disodium
Oxymetazoline hydrochloride	Visine L.R.	Benzalkonium chloride, edetate disodium
	Ocuclear	Benzalkonium chloride, edetate disodium
Phenylephrine hydrochloride	AK-Nefrin	Benzalkonium chloride, edetate disodium
	Eye Cool	Thimerosal, edetate disodium
	Prefrin Liquifilm	Benzalkonium chloride, edetate disodium
	Relief	—
Tetrahydrozoline hydrochloride	Collyrium Fresh	Benzalkonium chloride, edetate disodium
	Murine Plus	Benzalkonium chloride, edetate disodium
	Visine	Benzalkonium chloride, edetate disodium

**DECONGESTANT/ASTRINGENT COMBINATIONS**

Naphazoline hydrochloride plus zinc sulfate	Clear Eyes ACR (allergy/cold relief)	Benzalkonium chloride, edetate disodium
Phenylephrine hydrochloride plus zinc sulfate	Zincfrin	Benzalkonium chloride
Tetrahydrozoline plus zinc sulfate	Visine Allergy Relief	Benzalkonium chloride, edetate disodium

\*Prescription medication.

**8. OPHTHA**

Listed in **Table 23** general ophthalmic products. There are variations available for

TABLE 23

**OPHTHALMIC II****TRADE NAME**

AK-Rinse

Collyrium Fresh Eyes

Dacriose

Eye-Stream

Irigate

Lavoptik Eye Wash

**9. HYPER**

Hyperosmolar (hy They act through

TABLE 24

**HYPEROSMO****GENERIC NAME**

A. Therapeutic prepa Sodium chloride

B. Diagnostic prepa Glycerin

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.