condition, ointments may be applied from every hour to just at bedtime. Ointments should not be used with contact lenses. Inflammation occurring in response to tears film hypertonicity can be suppressed by mild topical steroids or with topical immunosuppressants such as cyclosporine.

SUMMARY

In one aspect, there is provided the use of an emulsion in the manufacture of a medicament for treating dry eye wherein the emulsion is a sodium chloride free and comprises about 0.25% w/w castor oil, polysorbate 80, carboxymethyl cellulose, a carbomer copolymer, erythritol, levocarnitine and glycerine.

In one aspect, there is provided the use of an emulsion comprising 0.5% w/w polysorbate 80, 0.5% w/w carboxymethylcellulose sodium, 1.0% w/w glycerin, 0.01% w/w stabilized oxychloro complex, 0.6% w/w boric acid, 0.1% w/w carbomer copolymer, 0.25% w/w castor oil, 0.25% w/w erythritol, 0.25% w/w levocarnitine, sodium hydroxide to adjust pH to 7.3, and purified water in the manufacture of a medicament for treating dry eye.

The present disclosure is comprised of an artificial tear emulsion of the following formulation:

Table I

[1] POLYSORBATE 80 Grade: NF Ph Eur	0.5	% w/w	Active
[2] CARBOXYMETHYLCELLULOSE SODIUM (LOW VISCOSITY 7LFPH) Grade: Ph Eur USP	0.5	% w/w	Active
[3] GLYCERIN Grade: Ph Eur USP	1.0	% w/w	Active
[4] PURITE Grade:	0.01	% w/w	Preservative
BORIC ACID Grade: NF Ph Eur	0.6	% w/w	Buffer
[5] PEMULEN TR-2 Grade: NF	0.1	% w/w	Stabilizer
[6] CASTOR OIL Grade: Eur Ph USP	0.25	% w/w	Excipient
ERYTHRITOL Grade: NF Ph Eur	0.25	% w/w	Excipient
LEVOCARNITINE Grade: Ph Eur USP	0.25	% w/w	Excipient
[7] SODIUM HYDROXIDE Grade: NF Ph Eur	7.3	pH	pH Adjust
[8] WATER FOR INJECTION / PURIFIED WATER Grade: USP	100	% w/w	QS Adjust

[1] PM# 12783. Super Refined Polysorbate 80 from CRODA. Primary emulsifer and demulcent.
[2] Demulcent
[3] Demulcent and tonicity agent
[4] Stabilized Oxychloro Complex (Purite). Add by assay value.
[5] Pemulen TR-2NF (Carbomer Copolymer Type A, Tested to Ph Eur). Secondary emulsifer.
[6] Lipophilic vehicle
[7] pH target 7.3
[8] Hydrophilic vehicle

CLAIMS:

1) A composition useful as an artificial tear, which is a salt free emulsion comprising castor oil and specifically excludes olive oil and contains at least one active agent selected from the group consisting of polysorbate, carboxymethylcellulose and glycerine.

2) The composition of claim 1 wherein said mixture comprises from 0.1% – 0.5% w/w, castor oil.

3) The composition of claim 2 wherein castor oil is the only oil in the emulsion.

4) The composition of claim 3 wherein the castor oil is emulsified in an aqueous phase.

5) The composition of claim 4 wherein the castor oil is present in about 0.25% w/w.

6) The composition of claim 5 further including a primary and a secondary emulsifier.

7) The composition of claims 5 wherein the composition contains a preservative.

8) The composition of claim 7 wherein the preservative is selected from the group consisting of PURITE and benzalkoniuim chloride.

9. The composition of claim 8 wherein the preservative is Purite® is present in a concentration of about 0.01% w/v.

10. An emulsion for use in treating dry eye wherein the emulsion is salt-free and comprises castor oil, polysorbate 80, carboxymethylcellulose and glycerine.

11. The emulsion of claim 10 wherein the emulsion also contains the emulsifier pemulin.

12. The emulsion of claim 11 further comprising erythritol and levocarnitine.

13. An emulsion for treating dry eye as shown in Table 1.

14. Use of any one of the compositions as shown in Table 1 in the manufacture of a medicament for treating dry eye.

15. The use of claim 14 wherein the medicament is preservative free.

16. The use of claim 14 wherein the medicament is to be applied at least once a day.

17. The use of claim 15 wherein the medicament alleviates the symptoms of dry eye syndrome.

18. The use of claim 15 wherein the medicament treats and prevents dry eye syndrome.

CLAIMS

1) Use of an emulsion in the manufacture of a medicament for treating dry eye wherein the emulsion is a sodium chloride free and comprises about 0.25% w/w castor oil, polysorbate 80, carboxymethyl cellulose, a carbomer copolymer, erythritol, levocarnitine and glycerine.

2) Use of an emulsion comprising 0.5% w/w polysorbate 80, 0.5% w/w carboxymethylcellulose sodium, 1.0% w/w glycerin, 0.01% w/w stabilized oxychloro complex, 0.6% w/w boric acid, 0.1% w/w carbomer copolymer, 0.25% w/w castor oil, 0.25% w/w erythritol, 0.25% w/w levocarnitine, sodium hydroxide to adjust pH to 7.3, and purified water in the manufacture of a medicament for treating dry eye.

3) The use of claim 2 wherein the emulsion is preservative free.

4) The use of claim 2 wherein the medicament is to be applied at least once a day.

5) The use of claim 3 wherein the medicament alleviates the symptoms of dry eye syndrome.

6) The use of claim 3 wherein the medicament treats and prevents dry eye syndrome.