

**Cellulose Self-Sealing Bands Material Safety Data Sheet**

**Product Number: MV-CB1, MV-CB15P , LV-CB15P**

**Identification**

Commercial Name *Viskrings*  
Supplier

**Ratermann Manufacturing, Inc.**

601 Pinnacle Place - Livermore, CA 94550  
Tel: (925) 606-2949 - Fax: (925) 606-2945

**Chemical Composition**

A regenerated cellulose tube, made by the Viscose process supplied wet in a preservative solution.

The preservative solution has the chemical composition:

PEG 200	7.00%
Para chloro meta cresol	0.17%
Hibitane	0.04%

*Viskrings* can be pigmented with small quantities of Toy grade pigments and/or titanium dioxide.

**Physical Properties**

Appearance A tubular material sold in flattened form.  
Solubility in Water Insoluble  
Density 0.003 Kg/metre length/cm cross-section/mm t.

**Storage and Handling**

Precautions Should not be allowed to freeze as this leads to product deterioration.  
This is not a safety hazard, however.

Materials of Containment to be Avoided

Unlined metallic drums as rusting can occur

Hazardous Decomposition Products

None

Possible Hazardous Reactions

None

Protection to be Worn Gloves or barrier creams to be worn. One of the preservatives P.C.M.C. can cause an allergic reaction to some people.

Measures in the Event of Spillage

Flush away with water

Disposal

The solution can be flushed into a chemical drain. *Viskrings* can be put into a municipal dump.

**Cellulose Self-Sealing Band Solution Material Safety Data Sheet**  
**Product Number: MV-LIQUID (Also applicable to MV-CB1 and MV-CB15P)**

**Identification**

Commercial Name     *Viskring* Preservative Solution  
Supplier                Ratermann Manufacturing, Inc.  
                              6764 Preston Avenue, Unit C  
                              Livermore, CA 94551

**Plain and Printed**

7.00% PEG 200           Polyethylene Glycol-200 refers to molecular size.  
                              Supplied by Shell Chemicals. Average molecular weight 190-210.

Toxicity of this product is low, acute irritant effects being Nil, but moderately toxic if ingested. Chronic effects in both cases are slight.

Used as softening agent.

0.17% PCMC            Para Chloro Meta Cresol – C7 H7 C10  
                              Supplied by Nipa Laboratories Ltd.  
                              No skin irritation when used as a hand wash, provided concentrations to not exceed 0.5%.  
                              PCMC is used in many applications as a disinfectant active.  
                              EEC Registered as approved preservative for cosmetic cream formulations up to 0.1%.

0.04% Hibitane        Hibitane Diacetate (chemically known as Chlorhexidene Diacetate).  
                              Supplied by ICI Chemicals.  
                              The material is unlikely to present any systemic toxic hazard in normal industrial use.

**Handling of Solution**

Normal hygiene should be observed – i.e. hands should be washed thoroughly after handling. A barrier cream or plastic gloves is recommended. In case of eye irritation, flush with water.