

## Vitamin A Microcaps (retinol)

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /  
March 26, 2012 / Rules and Regulation

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### 1 PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b>	Vitamin A Microcaps (retinol)	<b>Distributor:</b>	MakingCosmetics Inc.
<b>Synonyms:</b>	No data available	<b>Address:</b>	10800 231 <sup>st</sup> Way NE Redmond, WA 98053 (USA)
<b>INCI Name:</b>	Water, Glycine Soja (Soybean) Oil, Retinol, Cellulose Gum, Acrylates/C10-30 Alkyl Acrylate Crosspolymer, Chitosan, Glycolic Acid, Polysorbate 20, Sorbitan Oleate	<b>Phone / Fax:</b>	425-292-9502 / 425-292-9601
<b>CAS Number:</b>	7732-18-5, 8001-22-7, 68-26-8, 9004-32-4, 79- 14-1, 9005-64-5, 1338-43-8, 9012-76-4	<b>Web:</b>	<a href="http://www.makingcosmetics.com">www.makingcosmetics.com</a>
<b>Formula:</b>	No data available	<b>Emergency Telephone Number:</b>	1-800-424-9300 (Chemtrec)
<b>Product Form:</b>	Liquid		
<b>Product Use:</b>	Cosmetic use		

### 2 HAZARDS IDENTIFICATION

**OSHA Classification (2012  
Hazard Communication  
Standard; 29 CFR Part  
1910.1200):**

Skin Corrosion/Irritation: 2  
Eye Damage/Irritation: 2A  
Skin Sensitization: 1  
Reproductive Toxicity: 1B (Unborn Child)  
Aquatic Acute: 3  
**DANGER**

**Signal Word:**  
**Hazard Pictograms:**



**Hazard Statements:**

H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H360 May damage the unborn child.  
H402 Harmful to aquatic life.

**Precautionary Statements  
(Prevention):**

P280 Wear protective gloves, protective clothing and eye protection or face protection.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P201 Obtain special instructions before use.  
P273 Avoid release to the environment.  
P202 Do not handle until all safety precautions have been read and understood.

**Precautionary Statements  
(Response):**

P272 Contaminated work clothing should not be allowed out of the workplace.  
P264 Wash contaminated body parts thoroughly after handling.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303 + P361 IF ON SKIN (or hair): Wash with plenty of soap and water.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER or physician.  
P332 + P313 If skin irritation occurs: Get medical attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P337 + P311 If eye irritation persists: Call a POISON CENTER or physician.  
P405 Store locked up.

**Precautionary Statements  
(Storage):**

**Precautionary Statements  
(Disposal):**

P501 Dispose of contents and container to hazardous or special waste collection point.

**Other Hazards:**

No specific dangers known, if the regulations/notes for storage and handling are

<b>Potential Health Hazards:</b>	considered.	
	Eyes: May cause serious eye damage.	
	Inhalation: May cause irritation.	
	Skin: May cause irritation.	
	Ingestion: May cause nausea, vomiting, or diarrhea.	
<b>NFPA Ratings (704):</b>	<b>Health</b>	2 Moderate
	<b>Flammability</b>	1 Slight
	<b>Reactivity</b>	0 Minimal
	<b>Specific Hazard</b>	N/A

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Water	7732-18-5	6 - 100%	Not Available
Glycine Soja (Soybean) Oil	8001-22-7	5 - 10%	Not Available
Retinol	68-26-8	<2.0%	Not Available
Cellulose Gum	9004-32-4	<2.0%	Not Available
Triethanolamine	102-71-6	<2.0%	Not Available
Phenoxyethanol	122-99-6	1.0%	Not Available
BHT	128-37-0	<1.0%	Not Available
Glycolic Acid	79-14-1	<1.0%	Not Available
Acrylates/C10-30 LKYL	Not Available	<1.0%	Not Available
Acrylate Crosspolymer			
Polysorbate 20	9005-64-5	<1.0%	Not Available
Sorbitan Oleate	1338-43-8	<1.0%	Not Available
Chitosan	9012-76-4	<1.0%	Not Available
Ethylhexylglycerin	70445-33-9	<1.0%	Not Available

### 4 FIRST AID MEASURES

<b>Eyes:</b>	In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Remove contact lenses, if present. Do not rub the eyes. Seek medical attention.
<b>Inhalation:</b>	Move to fresh air. Seek medical attention if necessary.
<b>Skin:</b>	After contact with skin, wash immediately with plenty of water. Remove contaminated clothing. Do not rub affected parts of the body. Seek medical attention if skin irritation persists.
<b>Ingestion:</b>	Immediately rinse mouth and then drink 200-300 ml of water. Remove oral secretions and vomitus by suctioning to avoid aspiration, but protect against direct contact with contaminated fluids. Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Seek medical attention.
<b>General Notes:</b>	No hazard is expected under intended use and appropriate handling. Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### 5 FIRE-FIGHTING MEASURES

<b>Suitable (and unsuitable) extinguishing media:</b>	May be combustible at high temperature. Use appropriate media (water spray, carbon dioxide, dry powder, foam) for adjacent fire. No unsuitable extinguish media listed.
<b>Special protective equipment &amp; precautions for firefighters:</b>	Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
<b>Flash Points:</b>	>213°F (101°C) (Aqueous preparation).
<b>Specific hazards arising from the chemical:</b>	Harmful vapors, evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

### 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment &amp; emergency procedures:</b>	Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.
<b>Environmental precautions:</b>	Avoid liquid release into drains, sewers, public water, environment. Notify environmental authorities in case of leak.
<b>Methods and material for</b>	For small amounts: Pick up with suitable absorbent material. For large amounts: Dike

**containment and cleaning up:** spillage. Pump off product. Dispose of absorbed material in accordance with regulations. Do not try to clean up the leak without the proper protective equipment. Dispose of all waste and cleanup materials in accordance with regulations.

## 7 HANDLING & STORAGE

**Precautions for safe handling:** Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame. Handle in accordance with good industrial hygiene and safety practices. See section 8 for recommendations on the use of personal protective equipment.

**Conditions for safe storage, incl. any incompatibilities:** Keep container tightly closed and dry. Store in a cool place. Recommended storage temperature is  $\leq 68^{\circ}\text{F}$  ( $20^{\circ}\text{C}$ ). Avoid freezing or temperatures below  $39^{\circ}\text{F}$  ( $4^{\circ}\text{C}$ ). Protect from temperatures above:  $68^{\circ}\text{F}$  ( $20^{\circ}\text{C}$ ). Characteristics of the product are irreversibly changed if above/below the limit temperatures. Protect from light. Suitable materials for containers include high density polyethylene (HDPE). Store away from incompatible materials (see section 10 for incompatibilities).

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
BHT	2 mg/m <sup>3</sup> (inhalable fraction/vapor)	TWA	ACGIH, US
Soybean oil	15 mg/m <sup>3</sup> (total dust)	PEL	OSHA Z-1
	5 mg/m <sup>3</sup> (respirable fraction)	PEL	OSHA Z-1
	10 mg/m <sup>3</sup> (Inhalable particles)	TWA	ACGIH, US
	3 mg/m <sup>3</sup> (respirable particles)	TWA	ACGIH, US

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

### Personal Protection:

**Eyes:** Wear tightly fitting safety goggles.

**Inhalation:** Respiratory protection not required, but always recommended when working with chemicals.

**Body:** Wear chemical resistant protective gloves along with full protective clothing.

**Other:** Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Emulsion, fluid	<b>Vapor Pressure:</b>	No data available
<b>Odor:</b>	Odorless	<b>Vapor Density:</b>	Not applicable
<b>Odor Threshold:</b>	Not applicable	<b>Evaporation Rate:</b>	Can be approximated from Henry's Law Constant or vapor pressure
<b>Color:</b>	Light yellow	<b>Flammability:</b>	Not flammable
<b>Molecular Weight:</b>	No data available	<b>Upper/lower Explosive Limit:</b>	For liquids not relevant for classification and labelling
<b>pH:</b>	4.5 - 6.5 ( $20^{\circ}\text{C}$ ) (undiluted)	<b>Flash Point:</b>	$>213^{\circ}\text{F}$ ( $101^{\circ}\text{C}$ ) (Aqueous preparation)
<b>Boiling Point:</b>	No data available	<b>Specific Gravity:</b>	No data available
<b>Oxidizing Properties:</b>	Not fire-propagating	<b>Water Solubility:</b>	Dispersible
<b>Density:</b>	0.8 - 1.2 g/cm <sup>3</sup> ( $20^{\circ}\text{C}$ ) (pycnometer)	<b>Solubility (Qualitative):</b>	(Dispersible solvents) distilled water
<b>Partition Coefficient: n-octanol/water:</b>	No data available	<b>Thermal Decomposition:</b>	None if stored and handled as prescribed/indicated
<b>Viscosity, Dynamic:</b>	3,000 - 9,000 mPa*s ( $20^{\circ}\text{C}$ )	<b>Auto-Ignition Temperature</b>	Not applicable

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	No hazardous reactions if stored and handled as prescribed/indicated.
<b>Chemical Stability:</b>	The product is stable if stored and handled as prescribed/indicated.
<b>Hazardous Polymerization:</b>	No data available.
<b>Conditions to Avoid:</b>	Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame. Avoid freezing to hot temperatures.
<b>Incompatible Materials:</b>	Water reactive substances.
<b>Hazardous Decomposition Products:</b>	No hazardous decomposition products if stored and handled as prescribed/indicated.
<b>Possible Hazardous Reactions:</b>	None if used for intended purpose.

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	Virtually nontoxic after a single ingestion.
<b>Skin:</b>	Skin contact causes irritation.
<b>Eyes:</b>	Eye contact causes irritation.
<b>Respiratory:</b>	No data available.
<b>Ingestion:</b>	LD50: > 5,000 mg/kg.
<b>Primary Routes of Exposure:</b>	Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.
<b>Acetic Acid, Hydroxy:</b>	(Rat) LD50: 1,988 mg/kg (other).
<b>Carcinogenicity:</b>	The chemical structure does not suggest a specific alert for such an effect.
<b>Teratogenicity:</b>	May cause harm to the unborn child.
<b>Component</b>	
Retinol:	May cause harm to the unborn child.
<b>Germ Cell Mutagenicity:</b>	The chemical structure does not suggest a specific alert for such an effect.
<b>Specific Target Organ Toxicity:</b>	Single Dose: Based on available data, the classification criteria are not met. Repeated Dose: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.
<b>Reproductive Toxicity:</b>	No reliable data are available concerning reproduction toxicity.
<b>Aspiration Hazard:</b>	No aspiration hazard expected.
<b>Sensitization:</b>	Sensitization after skin contact possible.
<b>Component</b>	
Retinol:	Sensitization after skin contact possible.
<b>Irritation/Corrosion:</b>	
<b>Component</b>	
Retinol:	Skin contact causes irritation. Eye contact causes irritation.
Acetic acid, hydroxy:	Corrosive! Damages skin and eyes.
1,2-Propanediol, 3-[(2-ethylhexyl) oxy]:	Not irritating to the skin. May cause severe damage to the eyes.
<b>Other Information:</b>	The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	
<b>Aquatic Toxicity:</b>	The product has not been tested. The statement has been derived from the properties of the individual components.
<b>Component</b>	
Retinol:	High probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
Acetic acid, hydroxy:	Acutely harmful for aquatic organisms.
BHT:	Very toxic (acute effect) to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
1,2-Propanediol, 3-[(2-ethylhexyl) oxy]:	Acutely harmful for aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
<b>Toxicity to Microorganisms:</b>	(Activated Sludge) ECO: > 100 mg/l.
<b>Aquatic Vertebrate:</b>	LC50: > 10 - 100 mg/l.

<b>Aquatic Invertebrate:</b>	No data available.
<b>Terrestrial:</b>	No data available.
<b>Persistence and Degradability:</b>	Biodegradable.
<b>Bioaccumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	Not applicable.
<b>PBT and vPvB Assessment:</b>	No data available.
<b>Other Adverse Effects:</b>	No data available.

## 13 DISPOSAL CONSIDERATIONS

<b>Waste Residues:</b>	It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
<b>Product Containers:</b>	It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods.

## 14 TRANSPORT INFORMATION

<b>DOT (Dept. of Transportation, USA):</b>	Not classified as a dangerous good under transport regulations.
<b>TDG (Transportation of Dangerous Goods, Canada):</b>	Not data available.
<b>IMDG (International Maritime Dangerous Goods):</b>	Not classified as a dangerous good under transport regulations.
<b>IATA (International Air Transport Association):</b>	Not classified as a dangerous good under transport regulations.
<b>ICAO (International Civil Aviation Organization):</b>	Not classified as a dangerous good under transport regulations.

## 15 REGULATORY INFORMATION

<b>TSCA Inventory Status:</b>	Cosmetic: Released/Exempt; Chemical: Blocked/Not listed.
<b>EPCRA 311/312 (Hazard Categories):</b>	Skin Corrosion/Irritation: 2 Eye Damage/Irritation: 2A Skin Sensitization: 1 Reproductive Toxicity: 1B (Unborn Child) Aquatic Acute: 3
<b>CERCLA RQ:</b>	Methanol (67-56-1): 5000 LBS; 2,2'-iminodiethanol (111-42-2): 100 LBS
<b>NJ Right to Know:</b>	BHT (128-37-0)
<b>PA Right to Know:</b>	BHT (128-37-0); Soybean oil (8001-22-7)
<b>California Prop. 65:</b>	Proposition 65: WARNING: This product can expose you to chemicals including DIETHANOLAMINE, which is known to the State of California to cause cancer and VITAMIN A, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## 16 OTHER INFORMATION

<b>Revision Date:</b>	03-Apr-2024
<b>Compliance:</b>	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
<b>Disclaimer:</b>	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.