

## Vitamin A Liposomes (retinol)


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

Revision Date: 26-Jul-2021  
Supersedes: 13-Oct-2020

### 1 PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b>	Vitamin A Liposomes (retinol)	<b>Distributor:</b>	MakingCosmetics.com 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, pentylene glycol, lecithin, retinol, polysorbate 20, alcohol, potassium phosphate	<b>Phone / Fax:</b>	425-292-9502 / 425-292-9601
<b>CAS Number:</b>	7732-18-5, 111-29-5, 8002-43-5, 68-26-8, 9005-64-5, 64-17-5, 7778-77-0	<b>Web:</b>	www.makingcosmetics.com
<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

<b>GHS Classification:</b>	Serious Eye Damage/Eye Irritation: Category 2 Toxic to reproduction: Category 1B												
<b>GHS Signal Word:</b>	<b>DANGER</b>												
<b>GHS Hazard Pictograms:</b>													
<b>GHS Hazard Statements:</b>	H319: Causes serious eye irritation. H360: May damage fertility or the unborn child.												
<b>GHS Precautionary Statements:</b>	P201: Obtain special instructions before use/ P202: Do not handle until all safety precautions have been read and understood. P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear eye protection/face protection. Wear protective gloves. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P308 + P311: IF exposed or concerned: Get medical advice/attention. P363: Wash contaminated clothing before reuse/ P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P405: Store locked up. P501: Dispose of contents in accordance with local regulation												
<b>Potential Health Hazards:</b>	Eyes: May cause eye irritation. Inhalation: Not expected to be irritant. Skin: May be skin irritant. Ingestion: Harmful if swallowed.												
<b>NFPA Ratings (704):</b>	<table border="0"> <tr> <td style="background-color: #0070C0; color: white;">Health</td> <td style="text-align: center;">2*</td> <td>Moderate (*Chronic health effect)</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">Flammability</td> <td style="text-align: center;">1</td> <td>Slight</td> </tr> <tr> <td style="background-color: #FFFF00; color: black;">Reactivity</td> <td style="text-align: center;">0</td> <td>Minimal</td> </tr> <tr> <td>Specific Hazard</td> <td style="text-align: center;">N/A</td> <td></td> </tr> </table>	Health	2*	Moderate (*Chronic health effect)	Flammability	1	Slight	Reactivity	0	Minimal	Specific Hazard	N/A	
Health	2*	Moderate (*Chronic health effect)											
Flammability	1	Slight											
Reactivity	0	Minimal											
Specific Hazard	N/A												

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight % (acc. To FDA)</u>	<u>Molecular Weight</u>
Water	7732-18-5	A (>50%)	No data available
Pentylene Glycol	5343-92-0	C (10-25%)	No data available
Lecithin	8002-43-5	C (10-25%)	No data available
Alcohol	64-17-5	E (1-5%)	No data available
Retinol (>3,000,000 IU/g)	68-26-8	E (1-5%)	No data available
Polysorbate 20	9005-64-5	E (1-5%)	No data available
Potassium Phosphate	7778-77-0	F (0.1-1%)	No data available

## 4 FIRST AID MEASURES

**Eyes:** In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.  
**Inhalation:** Ensure supply of fresh air. In the event of symptoms seek medical advice.  
**Skin:** In case of contact with skin wash off with soap and water. Consult a doctor if skin irritation persists.  
**Ingestion:** Call for medical advice immediately; show the container on the label. Thoroughly clean the mouth with water. Do Not Induce Vomiting! Never give anything by mouth to an unconscious person.

## 5 FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:** May be combustible at high temperature. Use appropriate media (foam, carbon dioxide, dry chemical) for adjacent fire. Do not use water.  
**Special protective equipment & precautions for firefighters:** Do not inhale explosion and/or combustion gases. Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.  
**Flash Points:** 59.5°C (does not flash but will sustain combustion)  
**Specific hazards arising from the chemical:** In the event of a fire the following can be released: carbon dioxide, carbon monoxide. Under certain conditions of combustion traces of other toxic substances cannot be excluded. See also Stability and Reactivity section.

## 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment & emergency procedures:** Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.  
**Environmental precautions:** Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil.  
**Methods and material for containment and cleaning up:** Take up with absorbent material (e.g., sand, kieselguhr, universal binder). Dispose of absorbed material in accordance with regulations.

## 7 HANDLING & STORAGE

**Precautions for safe handling:** Avoid breathing dust/mist/vapors. Avoid contact with skin and eyes. Provide good ventilation of working area (local exhaust ventilation if necessary). See section 8 for recommendations on the use of personal protective equipment. Do not eat, drink, or smoke when working. Wash hands before breaks and immediately after handling the product. Do not wear contaminated clothing.  
**Conditions for safe storage, incl. any incompatibilities:** Keep container tightly closed. Store in cool and dry in the closed original packaging. Protect from heat and exposure to direct sunlight. Do not store <4°C. Store at temperature not greater than 4°C. Keep 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>
Vitamin A Liposomes	Not available		

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:** Close-fitting protective goggles (e.g., closed goggles).  
**Inhalation:** In case of formation of vapors/aerosols: Short-term: filter apparatus, combinations filter A-P2  
**Body:** Protective clothing. Protective gloves: material: gloves made of nitril (NBR). Break-through time: >480 min.  
**Other:** Do not eat, drink, or smoke when working. Wash hands before breaks and immediately after handling the product. Do not wear contaminated clothing. 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>	Clear, yellowish liquid	<b>Vapor Pressure:</b>	No data available
<b>Odor:</b>	Aromatic	<b>Vapor Density:</b>	Not determined
<b>Odor Threshold:</b>	Not determined	<b>Evaporation Rate:</b>	Not determined
<b>Color:</b>	Clear, yellowish	<b>Flammability:</b>	No data available
<b>Molecular Weight:</b>	No data available	<b>Upper/lower Explosive Limit:</b>	Not applicable
<b>pH @ 23 °C:</b>	6.5-7.5	<b>Flash Point:</b>	59.5 °C (does not flash but will sustain combustion)
<b>Boiling Point:</b>	>100 °C	<b>Specific Gravity @ 25 °C:</b>	No data available
<b>Melting Point:</b>	No data available	<b>Solubility in Water:</b>	Miscible
<b>Relative Density:</b>	No data available	<b>Auto-Ignition Temperature:</b>	Not expected during handling from practical experience
<b>Partition Coefficient: n-octanol/water:</b>	Not determined	<b>Decomposition Temperature:</b>	Not to be expected in view of the structure
<b>Viscosity:</b>	Not determined	<b>Explosive Properties:</b>	Not to be expected in view of the structure
<b>Oxidizing Properties:</b>	Not to be expected in view of the structure	<b>Freezing Point:</b>	No data available
<b>Formation of Flammable Gases:</b>	Not expected during handling from practical experience	<b>Metal Corrosion:</b>	Not expected during handling from practical experience

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	No hazardous reactions with proper storage and handling.
<b>Chemical Stability:</b>	The product is stable under normal conditions.
<b>Hazardous Polymerization:</b>	No hazardous reactions with proper storage and handling.
<b>Conditions to Avoid:</b>	No data available
<b>Incompatible Materials:</b>	No data available
<b>Hazardous Decomposition Products:</b>	None with proper storage and handling.

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	No data available
<b>Skin:</b>	Relevant route of exposure.
<b>Eyes:</b>	Relevant route of exposure.
<b>Respiratory:</b>	If handled correctly, not a relevant route of exposure.
<b>Ingestion:</b>	If handled correctly, not a relevant route of exposure.
<b>Carcinogenicity:</b>	No data available
<b>Teratogenicity:</b>	No data available
<b>Germ Cell Mutagenicity:</b>	No data available
<b>Embryotoxicity:</b>	No data available
<b>Specific Target Organ Toxicity:</b>	No data available
<b>Reproductive Toxicity:</b>	No data available
<b>Respiratory/Skin Sensitization:</b>	No data available
<b>Corrosivity:</b>	No data available
<b>Sensitization:</b>	No data available
<b>Irritation:</b>	No data available
<b>Repeated Dose Toxicity:</b>	No data available

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	
<b>Aquatic Vertebrate:</b>	No data available
<b>Aquatic Invertebrate:</b>	No data available
<b>Terrestrial:</b>	No data available
<b>Persistence and Degradability:</b>	No data available

<b>Bioaccumulative Potential:</b>	No data available
<b>Mobility in Soil:</b>	No data available
<b>PBT and vPvB Assessment:</b>	No data available
<b>Other Adverse Effects:</b>	Do not allow to enter soil, waterways, or waste water canal. The product is classified as slightly hazardous to waters according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV).

## 13 DISPOSAL CONSIDERATIONS

<b>Waste Residues:</b>	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>	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 regulated as dangerous goods
<b>TDG (Transportation of Dangerous Goods, Canada):</b>	Not regulated as dangerous goods
<b>IMDG (International Maritime Dangerous Goods):</b>	Not regulated as dangerous goods Not Dangerous Good of Class 3 - IMDG-Code 2.3.1.3 - Substance do not sustain combustion! Not Dangerous Good of Class 3 - IMDG-Code 2.3.1.3 - Substance do not sustain combustion!
<b>IATA (International Air Transport Association):</b>	Not regulated as dangerous goods Not Dangerous Good of Class 3 - IATA-DGR 3.3.1.3 / ICAO 3.1.3 - Substance do not sustain combustion! Not Dangerous Good of Class 3 - IATA-DGR 3.3.1.3 / ICAO 3.1.3 - Substance do not sustain combustion!
<b>ICAO (International Civil Aviation Organization):</b>	Not regulated as dangerous goods Not Dangerous Good of Class 3 - IATA-DGR 3.3.1.3 / ICAO 3.1.3 - Substance do not sustain combustion! Not Dangerous Good of Class 3 - IATA-DGR 3.3.1.3 / ICAO 3.1.3 - Substance do not sustain combustion!

## 15 REGULATORY INFORMATION

<b>TSCA Inventory Status:</b>	Included on inventory. Section 12(b) Export Notification (40 CFR 707, Subpt. D): None present or none present in regulated quantities. Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E): None present or none present in regulated quantities.
<b>DSCL (EEC):</b>	Not in compliance with the inventory.
<b>WHMIS (Canada):</b>	No data available
<b>DSL (Canada):</b>	No data available
<b>EU EINECS/ELINCS/NLP:</b>	No data available
<b>China IECSC:</b>	No data available
<b>China IECIC (06.30.2014):</b>	No data available
<b>Australia AICS:</b>	No data available
<b>Japan ENCS:</b>	No data available
<b>Philippines PICCS:</b>	No data available
<b>Korea KECI:</b>	No data available
<b>New Zealand NZIoC:</b>	No data available
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):</b>	None present or none present in regulated quantities.
<b>CERCLA Hazardous Substance List (40 CFR 302.4):</b>	Chemical name: Sodium hydroxide; Reportable quantity: 1000 lbs.
<b>SARA Hazard Categories:</b>	Reproductive toxicity
<b>SARA 302 Extremely Hazardous Substance:</b>	None present or none present in regulated quantities.

<b>SARA 311/312 Hazardous Chemical:</b>	No data available
<b>SARA 313 (TRI Reporting):</b>	None present or none present in regulated quantities.
<b>Clean Air Act Section 112(r) Accidental Release Prevention (40 CFR 68.130):</b>	None present or none present in regulated quantities.
<b>Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):</b>	None present or none present in regulated quantities.
<b>US California Prop. 65:</b>	WARNING: This product can expose you to chemicals including, Retinol, which is [are] 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> .
<b>US New Jersey Worker and Community RTK Act:</b>	No ingredient regulated by NJ Right-to-Know Law present.
<b>US Massachusetts RTK - Substance List:</b>	Chemical identity: Retinol
<b>US Pennsylvania RTK - Hazardous Substances:</b>	No ingredient regulated by PA Right-to-Know Law present.
<b>US Rhode Island RTK:</b>	No ingredient regulated by RI Right-to-Know Law present.

## 16 OTHER INFORMATION

<b>Revision Date:</b>	26-Jul-2021
<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.