

## Vitamin A Liposomes (retinol)


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

Revision Date: 04-Mar-2024  
Supersedes: 23-Apr-2019

### 1 PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b>	Vitamin A Liposomes (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, pentylene glycol, lecithin, retinol, polysorbate 20, alcohol, potassium phosphate		
<b>CAS Number:</b>	7732-18-5, 5343-92-0, 8002-43-5, 68- 26-8, 9005-64-5, 64-17-5, 7778-77-0	<b>Phone / Fax:</b>	425-292-9502 / 425-292-9601
<b>Formula:</b>	No data available	<b>Web:</b>	<a href="http://www.makingcosmetics.com">www.makingcosmetics.com</a>
<b>Product Form:</b>	Liquid		
<b>Product Use:</b>	Cosmetic use	<b>Emergency Telephone Number:</b>	1-800-424-9300 (Chemtrec)

### 2 HAZARDS IDENTIFICATION

<b>Hazard Classification:</b>	Serious Eye Damage/Eye Irritation Category 1 Skin sensitizer Category 1												
<b>Signal Word:</b>	<b>DANGER</b>												
<b>Hazard Pictograms:</b>													
<b>Hazard Statements:</b>	Causes serious eye damage. May cause an allergic skin reaction. May damage fertility or the unborn child.												
<b>Precautionary Statements:</b>	Prevention: Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Response: (If in eyes) Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. (If on skin or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a poison center/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. Storage: Store in a well-ventilated place. Keep cool. Store locked up. Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.												
<b>Potential Health Hazards:</b>	Eyes: May cause eye irritation. Inhalation: May cause irritation. 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</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 colspan="2">N/A</td> </tr> </table>	Health	2	Moderate	Flammability	1	Slight	Reactivity	0	Minimal	Specific Hazard	N/A	
Health	2	Moderate											
Flammability	1	Slight											
Reactivity	0	Minimal											
Specific Hazard	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	> 50%	Not Available
Pentylene glycol	5343-92-0	10% - 25%	Not Available
Lecithin	8002-43-5	10% - 25%	Not Available
Retinol	68-26-8	1% - 5%	Not Available
Polysorbate 20	9005-64-5	1% - 5%	Not Available
Alcohol	64-17-5	1% - 5%	Not Available
Potassium phosphate	7778-77-0	0.1% - 1%	Not Available
Tocopherol	10191-41-0	Not Available	Not Available
Ascorbyl Palmitate	137-66-6	Not Available	Not Available
BHT	128-37-0	Not Available	Not Available
BHA	25013-16-5	Not Available	Not Available

## 4 FIRST AID MEASURES

<b>Eyes:</b>	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice
<b>Inhalation:</b>	Ensure supply of fresh air. In the event of symptoms seek medical advice.
<b>Skin:</b>	In case of contact with skin wash off with soap and water. Consult a doctor if skin irritation persists.
<b>Ingestion:</b>	Call for medical advice immediately; show the container or the label. Thoroughly clean the mouth with water. Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Seek medical attention if symptoms develop and persist.
<b>General Information:</b>	Remove contaminated, soaked clothing immediately and dispose of safely.
<b>First Responders</b>	Do not inhale explosion and/or combustion gases, Use self-contained breathing apparatus and wear
<b>Personal Protection:</b>	protective suit. Treat symptomatically.

## 5 FIRE-FIGHTING MEASURES

<b>Suitable (and unsuitable) extinguishing media:</b>	May be combustible at high temperature. Use appropriate media (foam, carbon dioxide, dry powder, water spray.) for adjacent fire. Do not use full water jet.
<b>Special protective equipment &amp; precautions for firefighters:</b>	Do not inhale explosion and/or combustion gases. Take precautionary measures against static discharges. Keep away from sources of ignition. No smoking. Use self-contained breathing apparatus and wear protective suit, including eye protection and boots.
<b>Flash Points:</b>	59.5°C (138 °F)
<b>Specific hazards arising from the chemical:</b>	In the event of fire, the following can be released: carbon dioxide, carbon Monoxide. Under certain conditions of combustion, traces of other toxic substances cannot be excluded.

## 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment &amp; emergency procedures:</b>	Use personal protective equipment. See section 8 for recommendations on the use of personal protective equipment.
<b>Environmental precautions:</b>	Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. Notify environmental authorities in case of leak.
<b>Methods and material for containment and cleaning up:</b>	Take up with absorbent material (ex: sand, kieselguhr, universal binder). Dispose of absorbed material in accordance with the regulations.

## 7 HANDLING & STORAGE

<b>Precautions for safe handling:</b>	Avoid breathing dust, mist, and vapors. Avoid contact with skin and eyes. Provide good ventilation of working area (local exhaust ventilation if necessary). Observe good industrial hygiene practices. Do not eat, drink, or smoke when working. Wash hands before breaks and immediately after handling the product. Do not wear contaminated clothing. See section 8 for recommendations on the use of personal protective equipment.
<b>Conditions for safe storage, incl. any incompatibilities:</b>	Keep container tightly closed. Store 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.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- - Inhalable fraction and vapor.	2 mg/m <sup>3</sup>	TWA	ACGIH
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl	10 mg/m <sup>3</sup>	REL	NIOSH
Sodium hydroxide	2 mg/m <sup>3</sup>	PEL	OSHA Z-1
	2 mg/m <sup>3</sup>	Ceiling	ACGIH
	2 mg/m <sup>3</sup>	Ceil_Time	NIOSH

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 should be worn.  
**Inhalation:** In case of formation of vapors or aerosols (short term) filter apparatus, combination filter A-P2.  
**Body:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.  
**Other:** Do not eat, drink, or smoke when working. Wash hands before breaks and immediately after handling the product. Do not wear contaminated clothing.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Liquid	<b>Vapor Pressure:</b>	No data available
<b>Odor:</b>	Aromatic	<b>Vapor Density:</b>	No data available
<b>Odor Threshold:</b>	No data available	<b>Metal Corrosion:</b>	Not to be expected in view of the structure
<b>Color:</b>	Clear, yellowish	<b>Flammability:</b>	No data available
<b>pH:</b>	6.5 - 7.5 (23°C/73°F)	<b>Flash Point:</b>	59.5°C/138°F (This material will flash but doesn't sustain combustion)
<b>Boiling Point/Range:</b>	>100°C	<b>Specific Gravity:</b>	No data available
<b>Self-Ignition Temperature:</b>	Not expected during handling from practical experience.	<b>Water Solubility:</b>	Miscible
<b>Density:</b>	No data available	<b>Solubility in Other:</b>	Miscible
<b>Partition Coefficient: n-octanol/water:</b>	Log Kow: not determined	<b>Decomposition Temperature:</b>	Not to be expected in view of the structure
<b>Viscosity:</b>	No data available	<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>Formation of Flammable Gases:</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>	Stable under normal conditions.
<b>Hazardous Polymerization:</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to Avoid:</b>	Static discharges, sources of ignitions, heat.
<b>Incompatible Materials:</b>	Unknown.
<b>Hazardous Decomposition Products:</b>	None with proper storage and handling.
<b>Possible Hazardous Reactions:</b>	No hazardous reactions with proper storage and handling.

## 11 TOXICOLOGICAL INFORMATION

**Acute Toxicity:** No data available.

<b>Skin:</b>	No data available.
<b>Eyes:</b>	No data available.
<b>Respiratory:</b>	No data available.
<b>Ingestion:</b>	No data available.
<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>Skin Corrosion/Irritation:</b>	No data available.
<b>Skin Sensitization:</b>	No data available.
<b>Chronic Effects:</b>	No data available.
<b>Aspiration Hazard:</b>	No data available.
<b>Routes of Exposure:</b>	Skin contact, and eye contact are relevant routes of exposure. Inhalation and ingestion are not relevant routes of exposure if handled properly.

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	No data available.
<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, water ways or waste water canals. 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>	In accordance with local authority regulations, take to special waste incineration plant. 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>	If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards. 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>UNRTDG (United Nations Recommendations on Transport):</b>	Not regulated as dangerous goods.
<b>IMDG (International Maritime Dangerous Goods):</b>	Not regulated as dangerous goods of Class 3 IMDG-Code 2.3.1.3: Substance do not sustain combustion!
<b>IATA/DGR (International Air Transport Association):</b>	Not regulated as dangerous goods.
<b>ICAO (International Civil Aviation Organization):</b>	No data available.
<b>Transport in bulk (Annex II of MARPOL 73/78 &amp; IBC Code):</b>	Not applicable for product as supplied.

## 15 REGULATORY INFORMATION

<b>TSCA Section 12(b) (40 CFR</b>	None present or none present in regulated quantities.
-----------------------------------	---

<p>707, Subpt. D): (TSCA) Section 5(a) (2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E): US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): CERCLA Hazardous Substance List (40 CFR 302.4): Superfund Amendments and Reauthorization Act of 1986 (SARA): SARA 302 Extremely Hazardous Substance: SARA 311/312 Hazardous Chemical:  SARA 313 (TRI Reporting): Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): US New Jersey Worker and Community RTK Act: US. Massachusetts RTK - Substance List: US. Pennsylvania RTK - Hazardous Substances: US. Rhode Island RTK: US TSCA Inventory: Canada DSL Inventory List: US. California Prop 65:</p>	<p>None present or none present in regulated quantities.</p> <p>None present or none present in regulated quantities.</p> <p>Chemical Identity: sodium hydroxide. Reportable quantity: 1000 lbs.</p> <p>Hazard categories: Flammable (gases, aerosols, liquids, or solids), Serious eye damage or eye irritation, Respiratory or Skin Sensitization, Reproductive toxicity.</p> <p>None present or none present in regulated quantities.</p> <p>Chemical identity: Pentane-1,2-diol; Threshold planning: 10000lbs Chemical identity: Retinol; Threshold planning: 10000lbs Chemical identity: Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl; Threshold planning: 10000lbs Chemical identity: Sodium hydroxide; Threshold planning: 10000lbs</p> <p>None present or none present in regulated quantities. None present or none present in regulated quantities.</p> <p>None present or none present in regulated quantities.</p> <p>No ingredient regulated by NJ Right-to-Know Law present.</p> <p>Chemical identity: Retinol, Phenol, (1,1-dimethylethyl)-4-methoxy-</p> <p>No ingredient regulated by PA Right-to-Know Law present.</p> <p>No ingredient regulated by RI Right-to-Know Law present. Included on Inventory.</p> <p>Not in compliance with the inventory. WARNING: This product can expose you to chemicals including, Phenol, (1,1-dimethylethyl)-4-methoxy-, which is known to the State of California to cause cancer. This product can expose you to chemicals including, Retinol, 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>.</p>
--	--

## 16 OTHER INFORMATION

<b>Revision Date:</b>	04-Mar-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.