

SECTION 1. IDENTIFICATION

Product Name/Identifier	AC Retinol Liposome OS
Product Code	60184
Recommended Use	Ingredients/Raw materials used in the manufacturing of Cosmetic Products'
Restrictions on Use	None
Supplier/Manufacturing Site	Active Concepts, LLC
Address	107 Technology Drive Lincolnton, NC 28092, USA
Telephone No. (24hrs)	1-704-276-7100
Fax No.	1-704-276-7101
Emergency Telephone #	1-704-276-7100 (Mon-Fri: 8:00AM – 5:00PM EST)

SECTION 2. HAZARD(S) IDENTIFICATION

Classification:

Hazard Classification: Eye, Skin, and Respiratory Irritant

According to Regulation (EC) No 1272/2008 [CLP]:

Labeling Elements:

Pictograph:



Hazard statements/Signal Word:

H317: WARNING – May cause an allergic skin reaction
H319: WARNING – Causes serious eye irritation

Precautionary statements:

P202: Do not handle all safety precautions have been read and understood
P233: Keep container tightly closed
P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P264: Wash with plenty of water and soap thoroughly after handling
P272: Contaminated work clothing should not be allowed out of the workplace
P273: Avoid release to the environment
P280: Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing
P308 + P311: IF exposed or concerned: Call a POISON CENTER or doctor/physician
P303 + P352: IF ON SKIN (or hair): Wash with plenty of soap and water
P362 + P364: Take off contaminated clothing and wash it before reuse
P337 + P311: If eye irritation persists: Call a POISON CENTER or doctor/physician
P402: Store in a dry place
P404: Store in a closed container
P501: Dispose of contents/container to hazardous or special waste collection point

Hazard determining component(s) for labeling: RETINOL

Other hazards which do not result in classification:

No particular fire or explosion hazard.

By mechanical effect: No particular hazards.

By hygroscopic effect: No particular hazards.

US NFPA 704 (National Fire Protection Association) Hazard Rating System:

Health hazard: Rating 1; Irritation or minor reversible injury possible

Flammability: Rating 0, Will Not Burn

Reactivity: Rating 0, Stable

Other Hazard Information: None

Results of PBT and vPvB assessment:

-PBT: Not applicable

-vPvB: Not applicable

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Chemical Name: Caprylic/Capric Triglyceride & Phospholipids & Retinol

Generic name:

Chemical Family: Liposome

Description: Mixture: consisting of the following components. This section describes all components of the mixture

<u>Substance</u>	<u>CAS Numbers</u>	<u>EC Numbers</u>	<u>Percentage</u>
Caprylic/Capric Triglyceride	65381-09-1	265-724-3	80.00%
Phospholipids	123465-35-0	N/A	10.00%
Retinol	68-26-8	200-683-7	10.00%

Formula: Not applicable

SECTION 4. FIRST-AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation: Move to fresh air from exposure area. Get medical attention for any breathing difficulty.

Skin contact: Rinse with soap and water. Get medical advice if irritation develops.

Eye contact: Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician.

Ingestion: Rinse mouth and then drink 200 – 300 ml of water. Consult with a physician.

Protection of first-aiders: No special protection required.

SECTION 5. FIRE-FIGHTING MEASURES

Fire and explosion hazards:	No hazard is expected under intended use and appropriate handling.
Extinguishing media:	
Suitable:	Dry chemicals, foam, water spray and carbon dioxide
Not suitable:	None known
Fire fighting:	Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low area
Protection for fire-fighters:	Boots, gloves, goggles and self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with eyes. Personal Protective Equipment: -Protective goggles
Environmental precautions:	Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system
Methods for cleaning up:	
Recovery:	Pick up free liquid for recycling or disposal. Residual liquid can be absorbed on an inert material. Sweep or vacuum up any powder and place in a clearly labeled waste container, avoiding dust formation.
Cleaning/Decontamination:	Wash non-recoverable remainder with water.
Disposal:	For disposal of residues refer to sections 8 & 13.

SECTION 7. HANDLING AND STORAGE

Handling

Technical measures:	Labeling: Keep out of the reach of children.
Measures:	For industrial use, only as directed.
Safe handling advice:	Wash hands after use. Avoid storage near feed or food stuff.

Storage

Technical measures:	Keep container closed.
Recommended Storage Conditions:	Store in a dry place at temperatures not exceeding 32°C. Based on stability studies, the optimum storage temperature for maximization of shelf life is 23 - 25°C. However, it may be stored at temperatures between 16 and 32°C if such specific temperature control is not available. Do not freeze. Please refer to stability data for effects heat or cold may have on the specifications of the product.

Incompatible products:	Avoid contact with strong oxidizers. Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)
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Packaging:	Product may be packaged in normal commercial packaging.
Packaging materials:	Recommended - Polypropylene & High Density Polyethylene

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary statements: Ensure adequate ventilation

Control parameters

Occupational exposure Limits:

France: Not Determined
ACGIH: Not Determined
Korea: Not Determined
UK: Not Determined

Surveillance procedures: Not Determined
Engineering measures: Not Determined

Personal Protective Equipment:

Respiratory protection: Local exhaust
Hand protection: Protective gloves made of rubber or neoprene.
Eye protection: Safety glasses.
Collective emergency equipment: Eye fountain.
Skin and Body Protection: Suitable protective clothing
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Measures related to the Environment: No particular measures.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow oily liquid
Gardner Color: 10 Maximum

Odor: Characteristic

Refractive Index: 1.4500 – 1.4700

Heavy Metals: < 20 ppm
Lead: < 10 ppm
Arsenic: < 2 ppm
Cadmium: < 1 ppm

Microbial Content: < 100 CFU/g; No pathogens
Yeast & Mold: < 100 CFU/g
Gram Negative Bacteria: 0 CFU/g

Specific Gravity: 0.953

Vapor density: Not applicable
Boiling Point: Not determined
Freezing Point: Not determined
Melting point: Not applicable

Flash point: > 200°F
Oxidizing properties: Non oxidizing material according to EC criteria.

Solubility:
In water: Insoluble
In organic solvents: Not determined
Log P: Not determined

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage up to one year then re-test to full product specifications to extend shelf life

Hazardous reactions: None known

Conditions to avoid: No dangerous reactions known under use of normal conditions. Avoid extreme heat.

Materials to avoid: No dangerous reaction known with common products.

Hazardous decomposition products: None known

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion: Not Determined
Dermal: Non-Irritant (Dermal Irritation Model)
Ocular: Non-Irritant (Ocular Irritation Model)
Inhalation: Not Determined

Acute toxicity data: Non-Irritant, Non-Primary Sensitizer & Non-Photo irritant

Sensitization: Non-Primary Sensitizer; Will not cause allergic contact dermatitis (In Chemico Skin Sensitization Direct Peptide Reactivity Assay & In Vitro Skin Sensitization ARE-Nrf2 Luciferase Test Method)

Repeated dose toxicity: No known effects
Subacute to chronic toxicity: Not Determined

Mutagenicity: Non-Mutagenic (OECD471/ISO10993.Part 3 – Genotoxicity: Bacterial Reverse Mutation Test)

Additional Toxicological Information: This product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Specific effects:
Carcinogenicity: No known effects
Mutagenicity: No known effects
Reproductive toxicity: No known effects
Neuro-toxicity: No known effects

For more information: Does not present any particular risk on handling under normal conditions of good occupational hygiene practice.

This product has not been tested for the following:

- Primary cutaneous and corrosive irritation
- Acute oral toxicity

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Effects on the aquatic environment: EC₁₀ (Freshwater Alga): 174.22 mg/L - Not harmful to aquatic organisms
EC₂₀ (Freshwater Alga): 301.62 mg/L - Not harmful to aquatic organisms

Biodegradability:

Persistence: Readily Biodegradable (94.6% biodegradation after 28 days of testing)

Bioaccumulation:

Octanol / water partition coefficient: Not Determined

Mobility:

Precipitation:

Expected behavior of the product: Ultimate destination of the product: Soil & sediment.

Other Adverse Effects:

None known

SECTION 13. DISPOSAL CONSIDERATIONS

Residues from product

Prohibition: Do not allow the product to be released into the Environment.
Destruction/Disposal: Dispose of in accordance with relevant local regulations

Contaminated packaging

Decontamination/cleaning: Cleaning is not required prior to disposal.
Destruction/Disposal:

Note: Take all necessary precautions when disposing of this product according to local regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: None
UN Shipping Name: None
Transport Hazard Class: Not classified as dangerous for transport

Land (rail/road): Material is not restrictive for land transport and is not regulated by ADR/RID
Sea: Material is not restrictive for sea transport and is not regulated by IMO/IMDG
Air: Material is not restrictive for air transport and is not regulated by ICAO/IATA

Marine Pollutant: No

Transport/Additional Information: Not regulated for US DOT Transport in non-bulk containers
This material is not dangerous or hazardous

Special Precautions for User: None known

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

SECTION 15. REGULATORY INFORMATION

Labeling:

EC regulations: This product does not need to be labeled in accordance with EC Directives or respective national laws

Further regulations

United Kingdom: Handle in accordance with relevant British regulation: control of substance Hazardous to Health Regulations Environmental Hygiene Guidance: EH40
Workplace Exposure Limits (revised annually)

Korea regulations: Industrial safety and hygiene regulation: No
Hazardous material control regulation: No
Fire prevention regulation: No

Other regulations:

EINECS inventory status:	Caprylic/Capric Triglyceride:	265-724-3
	Phospholipids:	N/A
	Retinol:	200-683-7
TSCA inventory status:	Exempt	
AICS inventory status:	65381-09-1 & 123465-35-0 & 68-26-8	
Canadian (CEPA DSL) inventory status:	Listed as Decanoic acid, ester with 1,2,3-propanetriol octanoate (DSL) & Phospholipids (DSL) & Retinol (DSL)	
Japan (MITI list):	Caprylic/Capric Triglyceride & Phospholipids & Retinol	
Korea:	Caprylic/Capric Triglyceride & Phospholipids & Retinol	
China inventory status:	Caprylic/Capric Triglyceride & Phospholipids & Retinol	
Philippines inventory status:	Exempt: Phospholipids (123465-35-0) Listed as Decanoic acid, ester with 1,2,3-propanetriol octanoate & Retinol	

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user's attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions

SECTION 16. OTHER INFORMATION

Prohibited uses: For specific uses, food industry, ask the manufacturer for more information.

Last Revision Date: 03/06/2025

Preparation Date: 11/20/2025

MSDS summary of changes - Updated Classification, Pictograph, Hazard Statements, Precautionary Statements, Health Hazard & Flammability – Section 2 (Hazards Identification), Eye Contact & Ingestion – Section 4 (First-Aid Measures), Fire and Explosion Hazards, Suitable Extinguishing Media & Protection for fire-fighters – Section 5 (Fire-Fighting Measures)

MSDS summary of changes (Continued)

- Added Lead & Cadmium & Updated Microbial Content – Section 9 (Physical & Chemical Properties) & Added Irritation Data – Section 11 (Toxicological Information)
- Updated Hazard Statements/Signal Word – Section 2 (Hazards Identification), Added Sensitization Data – Section 11 (Toxicological Information) & Added Biodegradability Data – Section 12 (Ecological Information)
- Updated Refractive Index & Added All Trans Retinol Specification – Section 9 (Physical & Chemical Properties)
- Updated Refractive Index & Removed All Trans Retinol Specification – Section 9 (Physical & Chemical Properties)
- Added Acute Toxicity & Mutagenicity Data – Section 11 (Toxicological Information) & Added Biodegradability Data – Section 12 (Ecological Information)
- Updated Recommended Storage Conditions – Section 7 (Handling & Storage), Updated Acute Toxicity Data – Section 11 (Toxicological Information) & Updated Ecotoxicity Data – Section 12 (Ecological Information)
- Updated Recovery Methods for Cleaning up – Section 6 (Accidental Release Measures)
- Updated Recommended Use – Section 1 (Identification)
- Added Specific Gravity – Section 9 (Chemical & Physical Properties)

The information given is based on our knowledge of this product, at the time of publication in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than which it was intended. This is not in any way excuse the user from knowing and applying all the regulations governing their activity. It is sole responsibility of the user to take all precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user to fulfill his obligations regarding the use of products. This information is not exhaustive, this is not exonerate the user from ensuring that legal obligations other than those mentioned, relating to the use and storage.