

# SAFETY DATA SHEET

Revision Date 25.03.2021  
Version 3.3

## Hydroxypinacolone Retinoate

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Trade name : ActiBiso™ HPR-Liquid  
INCI name : Hydroxypinacolone Retinoate  
CAS-No. : 893412-73-2  
Chemical Family : Vitamin A for topical cosmetics  
Chemical Formula : NA  
Product Use: : Topical Cosmetic use only

#### REACH COMPLIANT SDS

Safety data sheets (SDSs) have been a well-accepted and effective method for the provision of information to recipients of substances and mixtures in the EU. These have been made an integral part of the system of Regulation (EC) No 1907/2006 (REACH) 1. The original requirements of REACH for SDSs have been further adapted to take into account the rules for safety data sheets of the Global Harmonised System (GHS)2 and the implementation of other elements of the GHS into EU legislation that were introduced by Regulation (EC) No 1272/2008 (CLP) 3 via amendments to Annex II of REACH 4.

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### SECTION 2: HAZARDS IDENTIFICATION

Route of Entry : Absorbed through skin. Eye contact. Ingestion  
Target Organs : Developmental toxicity  
Inhalation : None known  
Skin Contact : Prolonged contact may cause skin irritation.  
Eye Contact : Wear eye protection while handling. Eye contact may cause eye irritation.  
Ingestion : None known.

GHS Signal Word:  
DANGER

GHS Hazard Pictograms:



GHS Classifications:

Health, Reproductive toxicity, 1  
Environmental, Hazards to the aquatic environment - Acute, 3

GHS Phrases:

H360 - May damage fertility or the unborn child  
H402 - Harmful to aquatic life

GHS Precautionary Statements:

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P281 - Use personal protective equipment as required.

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Substances

Cas #	EINECS	INCI Name
5306-85-4	226-159-8	Dimethyl Isosorbide
893412-73-2	R&D exempt	HydroxyPinacolone Retinoat

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### SECTION 4: FIRST AID MEASURES

Inhalation	: Remove victim to fresh air. Seek medical attention if respiratory irritation or distress occurs.
Skin Contact	: Wash affected areas with soap and water. Consult physician if irritation persists.
Eye Contact	: Flush eyes with water for at least 15 minutes. Consult physician if irritation persists.
Ingestion	: Call a physician immediately. Do not induce vomiting without medical advice.

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### SECTION 5: FIRE FIGHTING MEASURES

Flammability : Combustible

Flash Point	: >212 °F
Flash Point Method	: closed cup
Autoignition Temp	: NA
Extinguishing Media	: Water, CO2, dry chemical, foam
Special Fire Fighting	: Use self-contained breathing apparatus, due to possible generation of toxic fumes.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

Dike and soak up with inert absorbent material (e.g. sand, silica gel, sawdust). Remove and dispose of in accordance with federal, state, and local laws.

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## SECTION 7: HANDLING AND STORAGE

Handling Precautions	: Use with adequate ventilation, avoid eye and skin contact. Maintain storage in low actinic (UV shielded) conditions, nitrogen headspace and <25C.
Storage Requirements	: Keep from freezing. Keep container closed.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	: Maintain air concentrations in work spaces in accord with standards outlined in sections 2 and 3.
Personal Protective Equip	: HMIS PP, B   Safety Glasses, Gloves Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash should be readily accessible to the work area. Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants).

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light yellow transparent solution
Odor	Characteristic odor
pH	NA
Physical State	Solid
Spec Grav./Density	1.10 – 1.20
Boiling Point	NA
Flammability	Combustible

Solubility	insoluble in water
Vapor Pressure	NA
Freezing/Melting Pt	NA
Flash Point	>212 °F
Vapor Density	Not Determined

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## SECTION 10: STABILITY AND REACTIVITY

Stability	: Stable at moderate temperatures. Avoid Oxygen/air and light (UV) exposure to maintain at optimal conditions
Conditions to Avoid	: Avoid sparks or combustion sources. Use with adequate ventilation.
Materials to Avoid	: None known
Hazardous Decomposition	: None known
Hazardous Polymerization	: None known

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## SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity - not irritating or sensitizing at 5% test concentration

Special Remarks on Chronic Effects on Humans.

Ingestion may cause adverse reproductive effects and birth defects (teratogenic/developmental toxin) based on guidelines presented by the National Toxicology Program in their monograph recommendations for the general class of Vitamin A, it's derivatives and related materials (retinol, Retinol Palmitate, all trans-retinoic acid, 13 cis retinoic acid)

Potential Chronic Health Effects:

Carcinogenic Effects: Not available

Mutagenic Effects: Not Mutagenic .

Teratogenic Effects: Classified POSSIBLE for Human

Developmental Toxicity: Classified developmental toxin (POSSIBLE)

[Both of these possible effect will not be present when formulated into cosmetics at targeted cosmetic use levels of <0.4% active]

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## SECTION 12: Ecological information

Environmental Fate and Distribution: No specific information is available.

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## SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal : Dispose in accordance with local, state and federal laws.

Recommend first diluting this product to 0.5% active retinoid (in non-hazardous solvent or surplus cosmetic emulsion) to lower Vitamin A level appropriately to comply with non-hazardous disposal. See section 02 and 15 for specific handling and requirements.

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## SECTION 14: TRANSPORT INFORMATION

Road shipment information (49 CFR 172.101) DOT ADR

NON-BULK

Proper Shipping Name: Not regulated

BULK

Proper Shipping Name: Not regulated

TRANSPORTATION INFORMATION-IMO/IMDG CODE (OCEAN)

Not subject to IMDG code.

TRANSPORTATION INFORMATION-ICAO/IATA (AIR)

Not subject to IATA regulations.

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## SECTION 15: REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standards 29CFR 1910.1200

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances: None

Section 312 Hazard Class:

Acute: No

Chronic: yes

Fire: no

Pressure: No

Reactive: No

Section 313 Toxic Chemicals: None present or none present in regulated quantities.

California Prop.65: This product contains the following ingredients for which the state of California has found to cause birth defects or other reproductive harm, which would require a warning under the statute: Retinol/retinyl esters, when daily dosages are in excess of 10,000 IU or 3000 retinol equivalents. [ note - dosage is referring to internal/orally taken Vit-A chemicals - and does not apply to topical applications. This product is not approved for oral use and therefore prop-65 will not apply to the proper use of this product. We make the prop-65 warning here because as a supplier, we have no final control of how our material is ultimately used, correctly or incorrectly and do not support or condone applications outside of topical cosmetic use.

Note: These warnings are present because the retinoid in this product is highly concentrated and would present a danger if accidentally ingested by someone who is pregnant. This warning does not apply to approved topical cosmetic applications of this product.

Regarding this substance in cosmetics: Like all other cosmetic retinoids, in accordance to the Prop 65 labeling guidelines, formulating this substance for topical use into a cosmetic preparation WILL not subject the cosmetic itself to Prop.65 labeling requirements since the daily dosage would be considered significantly under the 10,000 IU daily dose limit as applied to retinol/retinyl esters. Dosage under 10,000 IU / g retinol equivalent or less does not pose any fertility hazard

This product contains 240,000 IU retinol equivalent.

This product is intended for topical cosmetic use only. No not ingest.

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## SECTION 16: OTHER INFORMATION

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