



rainshadowlabs

# Safety Data Sheet

<b>Section 1: Chemical Product and Company Identification</b>	
Product Name: <b>PRM Retinol Moist</b>	Product Use: Personal Care Formulations
Company Name: <b>RainShadow Labs</b>	Company Address: 300 Port Ave, St. Helens, OR 97051, USA
Non-Emergency Telephone Number: (503) 366-3413	Emergency Telephone Number: RainShadow Labs (503) 366-3413
<b>Section 2: Hazards Identification</b>	
GHS Classification <ul style="list-style-type: none"> <li>• Serious Eye Damage: Category 2</li> <li>• Reproductive toxicity: Category 1B</li> </ul> Hazard Statements <ul style="list-style-type: none"> <li>• H319: Causes serious eye irritation</li> <li>• H360: May damage fertility or the unborn child</li> <li>• P201: Obtain special instructions before use</li> <li>• P202: Do not handle until all safety precautions have been read and understood</li> <li>• P261: Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>• P272: Contaminated work clothing should not be allowed out of the workplace</li> <li>• P280: Wear eye protection/face protection</li> <li>• P280e: Wear protective</li> <li>• P302+P352: If on Skin: Wash with plenty of soap and water</li> <li>• P308+P313: If exposed or concerned: Get medical advice/attention</li> <li>• P363: Wash contaminated clothing before reuse</li> <li>• P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</li> <li>• P405: Store locked up</li> <li>• P501: Disposal of all contents/container to be specified in accordance with regulations</li> </ul>	
<b>Section 3: Composition/Ingredient Information</b>	
1,2-Dihydroxupentane: CAS: 5343-92-0 Concentration: 20%-25% Ethanol: CAS: 64-17-5 Concentration: 1%-5% Retinol: CAS 68-26-8 Concentration 1%-3% Proprietary Ingredients: CAS: Not Available Concentration: 67%-78%	
<b>Section 4: First Aid Measures</b>	
General advice: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped trained personnel should begin cardiopulmonary resuscitation immediately. Eye contact: Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses. Skin Contact: Wash off immediately with plenty of water for at least 20 minutes. Ingestion: Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side. Inhalation: Move to fresh air Most important symptoms/effects- acute and delayed: Liver disorders. Eye disease.	

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### Section 5: Fire and Explosion Data

Suitable extinguishing media: Alcohol-resistant foam, Carbon Dioxide, Dry Chemical, Dry Sand, Limestone Powder  
Extinguishing media which must not be used for safety reasons: High volume water jet  
Specific hazards: Incomplete combustion may form carbon monoxide. Burning produces noxious and toxic fumes.  
Special protective equipment for fire fighters: Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

### Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Evacuate personnel to safe areas.  
Environmental precautions: Construct a dike to prevent spreading.  
Methods for cleaning up: Place in appropriate chemical waste container.  
Additional advice: If possible, stop flow of product.

### Section 7: Handling and Storage

Handling: Avoid contact with eyes. Use personal protective equipment. When using, do not eat, drink, or smoke.  
Storage: Keep away from direct sunlight. Keep the packing dry and well-sealed to prevent contamination and absorption of dampness. Before opening containers, completely wipe the top of containers with a disinfectant solution. Efforts to avoid contamination include storage in the original containers, if necessary transfer to sterile containers only. Risk of microbial contamination: Product must be handles with care. Keep containers tightly closed in a dry, cool, and well-ventilated place.  
Storage Temperature: 39°F (4°C)

### Section 8: Exposure Controls/Personal Protection

Engineering measures: Provide readily accessible eye wash stations and safety showers. Provide natural or explosion proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal protective equipment:

- Respiratory protection: With correct and proper use, and under normal conditions, breathing protection is not required. Wear appropriate respirator when ventilation is inadequate.
- Hand Protection: For prolonged or repeated contact use protective gloves. Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection: Chemical resistant goggles must be worn.
- Skin and body protection: No specific recommendation.
- Special instructions for protection and hygiene: Provide readily accessible eye wash stations and safety showers.

Exposure Limits:

Ethanol	Time Weighted Average (TWA): ACGIH	1,000 ppm	-
Ethanol	Recommended Exposure Limit (REL): NIOSH	1,000 ppm	1,900 mg/m <sup>3</sup>
Ethanol	Permissible Exposure Limit: OSHA Z1	1,000 ppm	1,900 mg/m <sup>3</sup>
Ethanol	Time Weighted Average (TWA): OSHA Z1A	1,000 ppm	1,900 mg/m <sup>3</sup>
Ethanol	Time Weighted Average (TWA): Permissible Exposure Limit (PEL): US CA OEL	1,000 ppm	1,900 mg/m <sup>3</sup>
Ethanol	Short Term Exposure Limit (STEL): ACGIH	1,000 ppm	-
Ethanol	Time Weighted Average (TWA): TN OEL	1,000 ppm	1,900 mg/m <sup>3</sup>

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### Section 9: Physical and Chemical Properties

Appearance: Yellow Liquid  
Odor: Aromatic  
Odor Threshold: No Data Available  
pH: 6.5-7.5  
Melting Point: No Data Available  
Boiling point/range: >212°F (>100°C)  
Flash Point: No Data Available  
Evaporation Rate: No Data Available  
Flammability (Solid, gas): N/A  
Upper/lower explosion/flammability limit: N/A  
Vapor Pressure: No Data Available  
Water Solubility: No Data Available  
Relative Vapor Density: N/A  
Relative Density: 1 (Water = 1) Estimated  
Partition coefficient (n-octanol/water): No Data Available  
Auto Ignition Temperature: No Data Available  
Decomposition Temperature: No Data Available  
Viscosity: No Data Available  
Molecular weight: No Data Available

### Section 10: Stability and Reactivity Data

Chemical Stability: Stable under normal conditions  
Conditions to avoid: No Data Available  
Materials to avoid: Reactive metals (e.g. sodium, calcium, zinc, etc...). Materials reactive with hydroxyl compounds.  
Oxidizing agents.  
Hazardous decomposition products: Carbon Monoxide, Carbon Dioxide, Aldehydes, flammable Hydrocarbon fragments  
Possibility of hazardous reactions/reactivity: No Data Available

### Section 11: Toxicological Information

Likely routes of exposure:

- Effects on Eye: Contact with eyes may cause irritation
- Effects on skin: Prolonged or repeated contact may dry skin and cause irritation.
- Inhalation Effects: No Data Available
- Ingestion Effects: No Data Available
- Symptoms: No Data Available

Acute Toxicity:

- Acute Oral Toxicity: No data available on the product itself
  - Acute Oral Toxicity – Components: Ethanol: LD50: 7,060 mg/kg Species: Rat
- Inhalation: No data available on the product itself
  - Inhalation – Components: Ethanol: LC50 (10h): 38 mg/l Species: Rat
- Acute Dermal Toxicity: No data available on the product itself
- Skin corrosion/irritation: Non-irritating in an RIPT
- Serious eye damage/eye irritation: Eye Irritation
- Sensitization: Non-sensitizing in an RIPT

Chronic toxicity or effects from long term exposures:

- Carcinogenicity: No Data Available
- Reproductive toxicity: May cause harm to the unborn child
- Germ cell mutagenicity: No data available on the product itself
- Specific target organ systemic toxicity (single exposure): No Data Available
- Specific target organ systemic toxicity (repeated exposure): No Data Available
- Aspiration hazard: No Data Available

Delayed and immediate effects and chronic effects from short and long term exposure:

- Ethanol: ACGIH: Group A3 – Confirmed animal carcinogen with unknown relevance to humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.

This product contains no listed carcinogens in concentration of 0.1% or greater. Liver disorders, eye disease.

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### Section 12: Ecological Information

Ecotoxicity effects:

- Aquatic toxicity: No data available on the product itself
  - Toxicity to Fish- Components:  
Ethanol: LC50 (96h) 13,480 mg/l Species: Flathead minnow *Pimephales promelas*  
Ethanol: LC50 (96h) 13,000 mg/l Species: Rainbow trout (*Oncorhynchus mykiss*)
  - Toxicity to Daphnia- Components:  
Ethanol: EC50 (48h): 12,340 mg/l Species: Daphnia  
Ethanol: EC50 (48h): 5,012 mg/l Species: Ceriodaphnia
  - Toxicity to algae – Components  
Ethanol: EC50 (96h): 10,000 mg/l Species: Algae
  - Toxicity to other organisms: No Data Available

Persistence and degradability:

- Biodegradability: No data available on the product itself
- Mobility: No Data Available
- Bioaccumulation: No data available on the product itself
  - Bioaccumulation- Components  
Ethanol: Negligible bioaccumulation potential

### Section 13: Disposal Considerations

Waste from residues/unused products: Contact supplier if guidance is required

Contaminated packaging: Dispose of container and unused contents in accordance with federal, state, and local requirements.

### Section 14: Transport Information

DOT: Not Dangerous Goods

IATA: Not Dangerous Goods

IMDG: Not Dangerous Goods

TDG: Not Dangerous Goods

Further Information: The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, please contact RainShadow Labs with the contact information above.

### Section 15: Other Regulatory Information

Toxic Substance Control Act (TSCA) 12(b) Component(s): None

Country	Regulatory List	Notification
USA	TSCA	Included on Inventory
EU	ELINCS	Substance is in compliance with REACH requirements for cosmetic product components
Canada	DSL	Not on Inventory
Australia	AICS	Included on Inventory
South Korea	ECL	Not regulated by the TCCA, regulated by Cosmetics Act
China	SEPA	Not on Inventory
Philippines	PICCS	Included on Inventory
Japan	ENCS	Included on Inventory

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification: Chronic Health Hazard Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 371) Component(s) above “de minimus” level: None

US California Safe Drinking Water & Toxic Enforcement Act (Proposition 65): WARNING! This product contains a chemical known the State of California to cause birth defects or other reproductive harm. Retinol/retinyl esters, when in daily dosages in excess of 10,000 IU

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### Section 16: Other Information

HMIS Rating:

- Health: 2
- Flammability: 1
- Physical Hazard: 0

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.

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