

Product Description:

- **INCI Name:** Tri Sodium Citrate
- **CAS No:** 6132-04-3
- **Physical Properties:** White, Odorless, Fine Granules
- **Country of Origin:** China
- **Certifications:** USP, Kosher, Vegan, Not Tested on Animals
- **Bulk Packaging:** 25kg bag* 40 = 1,000kg/pallet

Formulation Guidelines For Sodium Citrate (Dihydrate)

Sodium citrate is a multifunctional ingredient commonly used in cosmetic and personal care formulations. Here are some guidelines to consider when using sodium citrate in formulations:

1. **pH Adjuster:** Sodium citrate can be used as a pH adjuster in formulations. It is an alkaline compound and can help to raise the pH of acidic formulations or lower the pH of alkaline formulations.
2. **Chelating Agent:** Sodium citrate acts as a chelating agent, helping to bind and neutralize metal ions in formulations. It can improve the stability of formulations by preventing the degradation of ingredients caused by metal ions. Sodium citrate is particularly effective in preventing the formation of precipitates or discoloration due to metal ions.
3. **Buffering Agent:** Sodium citrate can act as a buffering agent, helping to stabilize the pH of a formulation. It can help maintain the desired pH level and prevent drastic changes due to external factors.
4. **Emulsification and Stability:** Sodium citrate can enhance the stability and emulsification properties of formulations. It helps to create stable emulsions and improve the compatibility of oil and water phases. Sodium citrate is often used in emulsions, creams, and lotions to improve their texture and stability.
5. **Compatibility:** Sodium citrate is generally compatible with a wide range of cosmetic ingredients.
6. **Solubility:** Sodium citrate is water-soluble and can be easily dissolved in water or aqueous solutions. Ensure that sodium citrate is fully dissolved before incorporating it into your formulation to ensure even distribution throughout the product.
7. **Regulatory Considerations:** Ensure compliance with applicable regulations and guidelines for the use of sodium citrate in your specific region and industry. Familiarize yourself with relevant regulations, labeling requirements, and any restrictions or limitations on its usage.
8. **Testing and Quality Control:** Before scaling up production or launching a product containing sodium citrate, conduct stability testing and quality control checks to ensure the performance, stability, and safety of formulation such as: viscosity measurements, stability tests under different conditions (temperature, pH), and microbial contamination tests.

