

## Guangzhou Longhui Trade Co., Ltd.

Room 408 of A Building, Qiaoying Garden  
510612 Guangzhou City  
Tianhe District,  
China

TEL: (020)37398489 FAX: 020-37398912

# Tinogard TL

### Chemical Nature:

Tinogard TL is a non-ionic, liquid, oil soluble, broad-band UV filter with strong performance over the whole UV-range. It protects home, personal care and fabric care formulations effectively from UV-light induced decomposition reactions and thus prevents fading or discoloration of products that are exposed to light.

### Typical properties:

|   |                       |       |
|---|-----------------------|-------|
| Melting Range (°C)                                  |                       | -56   |
| Flashpoint (°C)                                     |                       | >200  |
| Specific Gravity (25°C) [g/cm <sup>3</sup> ]        |                       | 1.15  |
| Solubility of active<br>(20°C) (g/100g<br>solution) | Ethyl acetate         | >50   |
|   | Acetone               | >50   |
|   | PEG-7 Glycerylcocoate | 12    |
|   | Ethanol               | 12    |
|   | 2-Propanol            | 11    |
|   | Isopropyl myristate   | 10    |
|   | Water                 | <0.01 |

### Applications:

Tinogard TL protects colors and other light sensitive ingredients from photolytic and/or photo-oxidative degradation and thus improves the stability of formulations which are exposed to UV radiation. In the case of emulsions incorporation into the oil phase where it has excellent solubility is recommended. Tinogard TL is suitable for most oils and emulsions as well as alcohol-based products. Concentrations of 0.01 to 0.1% are usually sufficient to stabilize personal care formulations against photolytic degradation.

The information submitted in this publication is based on Guangzhou Longhui Trade Co. Ltd's current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

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### **Storage:**

Containers should be stored tightly sealed in a dry place, the temperature do not store above 25.

5 kg/drum.

### **Shelf Life**

5 years:

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