Technical Data Sheet

**Product name:** UV-382-2  
**Product Form:** Light amber viscous liquid  
**Chemical name:** 95% benzenepropanoic acid, 3-(2H-benzotriazole-2-yl)-5-(1,1-dimethylethyl)-2-hydroxy-3, C7-9-branched and linear alkyl esters, and 5% 1-methoxy-2-propyl acetate  
**Synonym:** Tinuvin 384, Eversorb 82-2, Chisorb 5582, CGL 384  
**CAS No:** 127519-17-9  
**EC No:** 407-000-3  
**Molecular formula:** C27H37N3O3  
**Molecular weight:** 451.6  
**IUPAC name:** Reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates  
**Structure formula:**

![Structure formula](image)  

**Chemical Specification**

- **Appearance:** Light amber viscous liquid  
- **Viscosity at 20°C (mPa.S):** 2600-3600  
- **Active component (HPLC)(%):** 99.0 min.  
- **Density at 20°C (g/sm³):** 1.07  
- **Ash content (%):** 0.1 max.  
- **Transmittance (%)**  
  - 460 nm: 95.0 min.  
  - 500 nm: 97.0 min.  

**Packing:**  
25/20kg or 200kg plastic drum  

**Characterization:**  
UV-384-2 is a liquid UV absorber of benzotriazole type used for coatings. Its very high thermal stability and environmental permanence make it suitable for coatings exposed to high bake cycles and/or extreme environmental conditions. Its high performance and durability meet
requirements of automotive and industrial high quality finishes. Its broad UV absorption allows efficient protection of light sensitive base coats or substrates such as wood and plastics.

**Properties and applications:**
It is of the high thermal stability and high compatibility in various polymers. It is especially suitable for industrial and automotive coatings. UV-384-2 can be enhanced when used in combination with a HALS stabilizer such as UV-292 or UV-123. These combinations improve the durability of clear costs by inhibiting or retarding the occurrence of failures such as gloss reduction, cracking, color change, blistering and elamination. The amount of UV-384-2 required for optimum performance should be determined in trials covering a concentration range.

**Solubility (20°C, g/100g solvent):**
- Water: <0.1
- Butanol: >30
- n-Hexane: >30
- Ethyl acetate: >30
- Toluene: >30

**Uses:**
Costing: 1.0-3.0% UV-384-2 and 0.5-2.0 UV-292 or UV-123 or UV-144

**Safety and Handling:**
It should be handled in accordance with good industrial practice. Detailed information is provided in the MSDS.

**Storage:**
Stored in a closed system and be kept in a dry and dark place without exposure to light.