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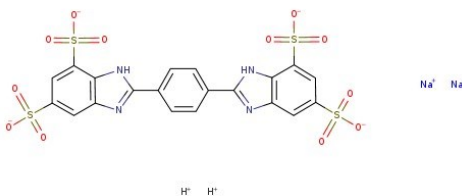
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Trade registration nr. 50769421 Chamber of Commerce Utrecht

## Technical Data Sheet

10 March 2023

<b>Product name:</b>	UV-DPDT
<b>Product Form:</b>	Solid
<b>Chemical name:</b>	1H-Benzimidazole-4,6-disulfonic acid, 2,2'-(1,4-phenylene)bis-, disodium salt
<b>Synonym:</b>	Disodium Phenyl Dibenzimidazole Tetrasulfonate
<b>CAS No:</b>	180898-37-7
<b>EINECS No:</b>	429-750-0
<b>Molecular formula:</b>	C <sub>20</sub> H <sub>12</sub> N <sub>4</sub> Na <sub>2</sub> O <sub>12</sub> S <sub>4</sub>
<b>Structure formula:</b>	



### Chemical Specification

Appearance	Yellow or dark yellow powder
Assay (%)	96.0 min.
Loss on drying (%)	3.0 max.
Specific extinction (E1, 1cm)	99.0 min.

**Packing:** In 25kgs net drum

**Shelf life:** 36months

### Features and application:

UV-DPDT is a highly efficient water-soluble UVA II absorber renowned for its outstanding performance in sunscreen formulations. It offers robust UV absorption within the 280-370nm range, delivering strong protection against UVA rays. With excellent photostability and skin-

friendly characteristics, it is particularly suitable for sensitive skin products. When combined with oil-soluble UVB absorbers, it exhibits a synergistic effect, resulting in highly effective broad-spectrum UVA protection. UV-DPDT demonstrates remarkable compatibility with other UV absorbers and cosmetic raw materials, making it an ideal choice for formulation versatility. Its stability and compatibility also make it a perfect fit for transparent water-based products. Overall, UV-DPDT is a reliable, efficient, and versatile UVA sunscreen agent, ensuring optimal protection and safety for your skin.

It also has a good safety profile with very low skin penetration and is approved up to 10% in the EU.