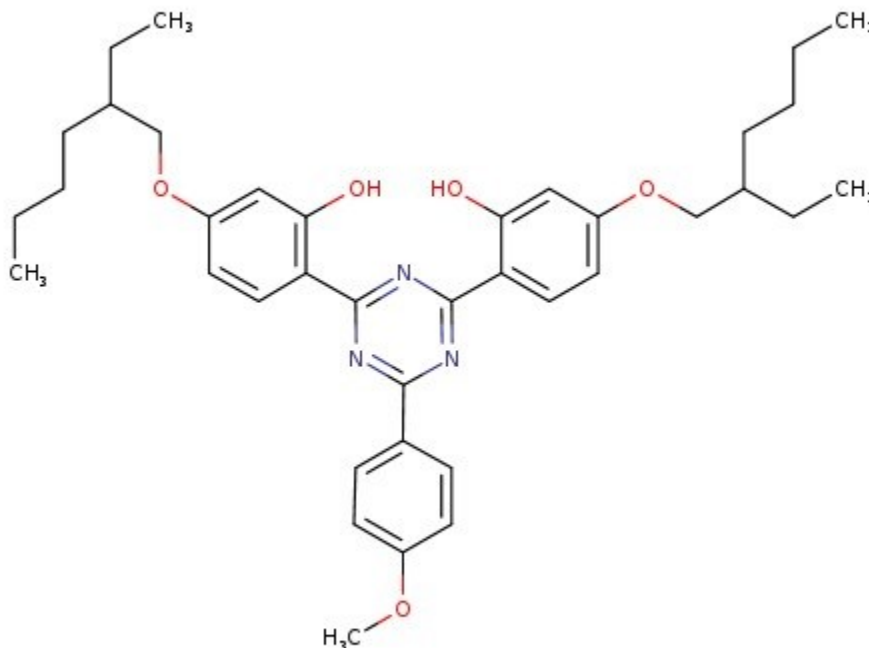


Technical Data Sheet

10 March 2023

| | |
|---------------------------|--|
| Product name: | BEMT |
| Product Form: | Solid |
| Chemical name: | 2,2'-[6-(4-methoxyphenyl)-1,3,5-triazine-2,4-diyl]bis{5-[(2-ethylhexyl)oxy]phenol} |
| Synonym: | Bemotrizinol, UV-627, UV-509 |
| CAS No: | 187393-00-6 |
| EINECS No: | 425-950-7 |
| Molecular formula: | C ₃₈ H ₄₉ N ₃ O ₅ |
| Molecular weight: | 627.8 |
| Structure formula: | |



Chemical Specification

| | |
|--------------------------------|-------------------------------|
| Appearance | Light yellow to yellow powder |
| Assay (% , HPLC) | 98.0 min. |
| Loss on drying (%) | 0.5 max. |
| Total impurities (% , HPLC) | 2.0 max. |
| Total aerobic micro (cfu/g) | 100 max. |
| Total yeast & mold (cfu/g) | 100 max. |
| Escherichia coli (in 1g) | negative |
| Salmonella (in 1g) | Negative |
| Candida albicans (in 1g) | Negative |
| Staphylococcus aureus (in 1g) | Negative |
| Pseudomonas aeruginosa (in 1g) | Negative |
| Nickel (ppm) | 1 max. |
| Mercury (ppm) | 1 max. |
| Antimony (ppm) | 1 max. |
| Lead (ppm) | 5 max. |
| Arsenic (ppm) | 2 max. |
| Cadmium (ppm) | 1 max. |
| Cobalt (ppm) | 1 max. |
| Chrome (ppm) | 1 max. |
| Total heavy metals (ppm) | 10 max. |
| Residual solvents | Meets requirements of ICH/USP |

Packing: In 25kgs net drum, 450kgs (18drums) on pallet

Shelf life: 24months

Storage:

Preserve in well-closed containers. Store at room temperature.

Features and application:

BEMT is highly effective UV filter due to its broad-spectrum absorption. It is very photo-stable and compatible with other UV filters and also has ability to stabilize other UV filters. It can be incorporated in sunscreens, but also in day care products as well as skin lightening products

UV Characteristics:

