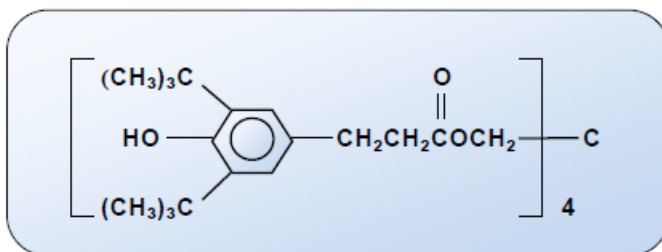


DOVERNOX 10

Tetrakis methylene (3,5-di-t-butyl-4-hydroxyhydrocinnamate) methane

Dovernox 10 is a solid high molecular weight hindered phenolic antioxidant that is effective in a wide range of polymers. The low volatility of **Dovernox 10** provides good long term heat aging and high temperature processing stability. **Dovernox 10** is an effective stabilizer for polyolefins, styrenics, block copolymers, elastomers, adhesives, PVC, and polyurethanes. Typical use levels range from 0.1 to 1.0%.



Tetrakis methylene (3,5-di-t-butyl-4-hydroxyhydrocinnamate)methane
CAS Registry Number 6683-19-8

TYPICAL PROPERTIES

Property	Typical Result
Physical Form	White Free Flowing Powder
Molecular Weight	1178
Melting Point, °C	110-125
Solubility (gm/100 ml @ 20°C):	
Acetone	47.0
Hexane	0.30
Methanol	1.00<
Water	0.01
Ethyl Acetate	46.0

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FDA Status of Dovernox 10

Dovernox 10 is sanctioned by the FDA for use in food packaging applications in accordance with regulations as printed in Title 21, Section 178.2010 of the U.S. Code of Federal Regulations. In 21 CFR 178.2010 - Antioxidants for polymers:

1. At levels not to exceed 0.5% by weight of all polymers used as indirect additives in food packaging.
2. At levels not to exceed 0.1% by weight of petroleum wax or synthetic petroleum wax complying with Section 176.170(a)(5).
3. At levels not to exceed 1.0% by weight of pressure sensitive adhesives complying with section 175.125.
4. At levels not to exceed 1.0% by weight of can end cement formulations complying with Section 175.300(b)(3)(xxxi).
5. At levels not to exceed 1.0% by weight of petroleum alicyclic hydrocarbon resins complying with Section 175.320(b)(3), Section 176.170(b)(2), or their hydrogenated products complying with Section 176.170(b)(2).
6. At levels not to exceed 1.0% by weight of rosin and rosin derivatives used in accordance with Section 175 through 178.
7. At levels not to exceed 1.0% by weight or terpene resins complying with Section 175.300(b)(2)(xi) when such terpene resins are used in accordance with Section 176.170(b).
8. At levels not to exceed 1.0% by weight of resins and polymers complying with Section 176.180.
9. At levels not to exceed 1.0% by weight of closures with sealing gaskets complying with Section 177.1210.
10. At levels not to exceed 1.0% by weight of polyoxymethylene copolymer as provided in Section 177.2470(b)(1).
11. At levels not to exceed 1.0% by weight of petroleum hydrocarbon resin complying with Section 178.3800.
12. At levels not to exceed 1.0% by weight of reinforced wax complying with Section 178.3850.

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