



Plasti Pigments Private Limited

TECHNICAL DATA SHEET PLASPEROX® TBP - 50

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND COMPANY

PRODUCT NAME: PLASPEROX® TBP-50
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MANUFACTURER: Plasti Pigments Private Limited
ADDRESS: Plot No. C - 8/5, TTC Industrial Area, Thane Belapur Road,
Navi Mumbai - 400703. INDIA
EMAIL: sales@plastipigments.com / support@plastipigments.com
CHEMICAL NAME: Tertiary-Butyl Peroxy Benzoate (TBP-50)
CAS NO.: 614-45-9
CHEMICAL FAMILY: Organic Peroxide (Peroxyester)
CHEMICAL FORMULA: $C_6H_5CO_3C(CH_3)_3$

SECTION 2 - TYPICAL PROPERTIES

<i>Typical Properties:</i>	
Appearance	Yellowish Liquid
Molecular Weight	194
Active Oxygen	4.12% ww minimum
Peroxide Content	ca. 50% w/w
De-sensitising agent	ester of phthalic acid
Density @ 20 degree C	ca. 1.11 g/c cm
Viscosity @ 20 degree C	ca 1.505
Flash Point (DIN 51584)	above 100 degree C
Cold Storage Stability	below 5 degree C

Miscibility @ 23 degree C	more than 50% w/w miscible with Methanol, Isopropanol, Ethyl Acetate, Dimethyl Phthalate, chloro Methylene, Styrene.
	Less than 1% w/w miscible with water.
<i>Thermal Stability:</i>	
Critical Temperature (SADT)	Above 80 degree C
Recommended storage Temp	below 25 degree C
Maintenance of activity 25 degree C	ca 6 months
Kick off Temperature	ca 90 degree C

HAZARDOUS PROPERTIES :

PLASPEROX TBP – 50 irritates eyes, skin and respiratory passages. It is sensitive to heat, combustible and promotes combustion. The higher the temperature, the higher the rate of decomposition. Above 80^o C, spontaneous decomposition may occur under conditions of restricted heat transfer (eg. in the supply container). Contact with concentrated acids and alkalis, reducing agents or dirt, ash, rust and metal dust may also cause spontaneous decomposition. Under confinement there is an explosion risk.