

SAFETY FLASH



UNITED INITIATORS
driving your success

DTBP S-500

The future of peroxides

- SIGNIFICANTLY LOWER ELECTROSTATIC DISCHARGING POTENTIAL
- LOWER ACCIDENT RISK
- IMPROVED HANDLING SECURITY

LOW ELECTROSTATIC

SAFETY INFORMATION

DTBP (Di(tert.butyl)peroxid)

DTBP is one of the most versatile organic peroxides, used in many completely different applications, such as polymerisation, polymer crosslinking, chemical synthesis, polymer degradation, fuel additive etc.

The critical temperature, defined as SADT (Self-Accelerating Decomposition Temperature) is above 80 °C, so DTBP can be transported and stored at ambient temperature.

However, DTBP is a volatile and combustible liquid with a low flashpoint and a very low conductivity of less than 3 pS/m, thus bearing the risk of an electrical discharge.

The new **DTBP S-500** is produced with a new processing aid, leaving DTBP with unchanged specification, but a much higher conductivity of ca. 500 pS/m. Therefore DTBP S-500 reduces the risk of electrical discharge during handling operations and contributes substantially to a safe working environment.

RELEVANT SAFETY DATA OF **DTBP S-500**

Peroxide content	> 99 %
Melting point	< -25 °C
Vapor pressure at 20/40/110 °C	25/75/1000 mbar
SADT	> 80 °C
Recommended storage temperature	< 30 °C
Flashpoint (Setaflash)	ca. 0 °C
Ignition temperature	ca. 160 °C
Conductivity at 20 °C	ca. 500 pS/m
Ignition energy	< 0.1 mJ
Lower explosive limit (20 °C)	45.0 gm ³
Upper explosive limit (45/70 °C)	100 %
Half life (1h)	146 °C

