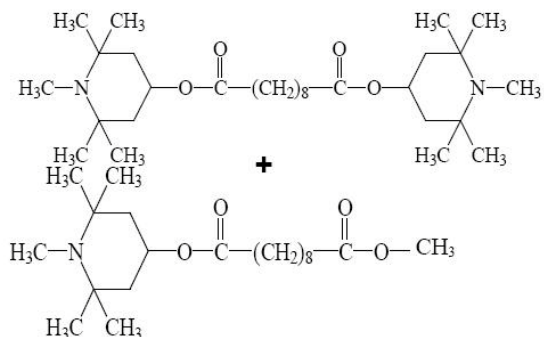


Technical Data Sheet

Product name:	UV-765
Chemical name:	Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate +1-(methyl)-8-(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
Synonym:	Tinuvin® 765
CAS No:	41556-26-7 and 82919-37-7
Chemical Structure:	



Quality norm:	technical grade
Specification:	

Appearance:	Pale yellow liquid
Transmittance (%)	
425 nm	95 min.
450 nm	97 min
500 nm	98 min.
Purity (%):	96.0 min
Diester (%):	92.0 min.
Monoester (%):	4.0 min.
Ash (%):	0.1 maax.

Package: 20/200/1000kgs plastic drum on pallets,

Applications

TINUVIN 765 is a highly effective liquid stabilizer used for a wide range of polymers and applications including polyurethanes, sealants, adhesives, elastomers, unsaturated polyesters, acrylics, vinyl polymers (PVB, PVC), styrene homo- and copolymers, polyolefins, liquid color concentrates, and other organic substrates

Features/benefits

TINUVIN 765 provides outstanding performance and its liquid form provides ease of handling and incorporation. It is compatible in a wide array of substrates. TINUVIN 765 has low volatility and is thermally stable.

Guidelines for use

Use levels for TINUVIN 765 range between 0.1% and 1.0%, depending on the substrate and performance requirements. Synergistic performance may be obtained when TINUVIN 765 is used with a ultraviolet light absorber. Performance data are available in many substrates. For optimum effectiveness, adequate base stabilization (e.g. antioxidants/ processing stabilizers) of the polymer is necessary to prevent thermal oxidation. Sulfur containing stabilizers such as thioesters have sometimes been found to have a negative effect on the performance of TINUVIN 765. Such influences should be evaluated in specific customer testing. TINUVIN 765 may crystallize during storage below 0°C, however the product can be easily liquefied by slight warming.

Physical Properties

Melting Range	not applicable
Flashpoint	92 °C
Specific Gravity (20 °C)	0.993 g/cm ³
Vapor Pressure (20 °C)	1 E-4 Pa
Solubility (20°C)	% w/w
Water	< 0.01
Acetone	> 50
Chloroforme	> 50
Cyclohexane	> 50
Ethanol	> 50
Ethyl acetate	> 50
n-Hexane	> 50
Methanole	> 50
Methylene chloride	> 50
Toluene	> 50

Volatility

Weight loss (%)	Pure substance; TGA, heating rate 20 °C/min in air Temperature (°C)
1.0	225
3.0	250
10.0	275

Registration

The registration status for TINUVIN 765 is derived from the single components.

The components are registered in:

Australia
Canada
China
Europe
Japan
Korea
Philippines
USA.