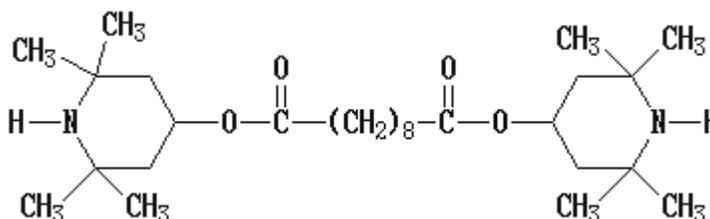


Technical Data Sheet

Product name:	UV-770
Chemical name:	Bis(2,2,6,6-tetramethyl-4-piperidine)sebacate
Synonym:	Tinuvin@770
CAS No:	52829-07-9
EC No:	258-207-9
Chemical formula:	C ₂₂ H ₂₉ N ₃ O
Formula weight:	481
Chemical Structure:	



Quality norm:	technical grade
Specification:	

Appearance:	White with light yellow powder or pellet
Assay:	99.0% min.
Melting point:	81.0 ~ 85.0 °C
Volatile matter:	0.5% max.
Ash content:	0.1% max.
Light transmittance:	
425 (nm):	98.0% min.
500 (nm):	99.0% min.

Characterization:

UV- 770 is a hindered amine light stabilizer (HALS) for applications demanding particularly high light stability. It provides excellent light stability for thick sections but can also be used for articles with a high surface area such as films and tapes.

Application:

UV- 770 is recommended to be used in polypropylene, impact modified PP (TPO), EPDM, polystyrene, impact polystyrene, ABS, SAN, ASA and polyurethanes and is also effective in polyamides and polyacetals.

Features:

UV-770 is a low molecular weight hindered amine light stabilizer that provides excellent light stability for thick sections and films in the recommended substrates. Benefit of using UV-770 is

the high light-stabilizing performance, particularly in PP thick sections. It has broad compatibility and can be easily dispersed.

Compared to conventional UV-absorbers, the effectiveness of UV-770 is less dependent on the polymer's thickness. For this reason the use of UV-770 also provides good light stability in articles with higher specific surface, e.g. films and tapes.

Combined with other HALS UV-770 is part of other synergistic blends, e.g. UV-791.

Guidelines:

The recommended concentrations range between 0.1% and 0.5%, depending on the substrate, processing conditions and application. The optimum level is substrate and application specific. Extensive performance data of UV-770 in various substrates and for various applications is available upon request.

Physical Properties:

Melting Range	81-85 °C
Flashpoint	> 150 °C DIN 51584
Specific Gravity (20 °C)	1.05 g/cm ³
Vapor Pressure (20 °C)	1.3 E-8 Pa
Bulk density	470 - 510 g/l

Solubility (20 °C) % w/w

Acetone	19
Chloroform	45
Ethanol	-
Ethyl acetate	24
n-Hexane	5
Methanol	38
Methylene Chloride	56
Toluene	-
Water	< 0.01

Volatility

Pure substance; TGA, heating rate at 20 °C/min in air

Weight Loss (%)	Temperature °C
0.7	150
0.7	175
1.0	200
2.1	225
7.2	250
19.8	275

Handling and Safety:

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Avoid contact with eyes. Avoid release to the environment. Avoid dust formation and ignition sources.

For more detailed information please refer to the material safety data sheet.

Registration:

UV-770 is listed on the following Inventories:

Australia	AICS
Canada	DSL

China	Draft Inventory
Europe	EINECS
Japan	ENCS
Korea	ECL
Philippines	PICS
USA	TSCA

Packing:

In 25kg net pp cartons on pallets or 20kg bags, 500kg (carton) per pallet or 500kg (bags) per pallet or as required or 110pound fibre drum on pallet with shrink film. Palletizing is wrapped and film shrunk

Loading capacity: 10mt per 20'FCL.

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Please note that products may differ from country to country. If you have any queries, please kindly contact us.